

# 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)

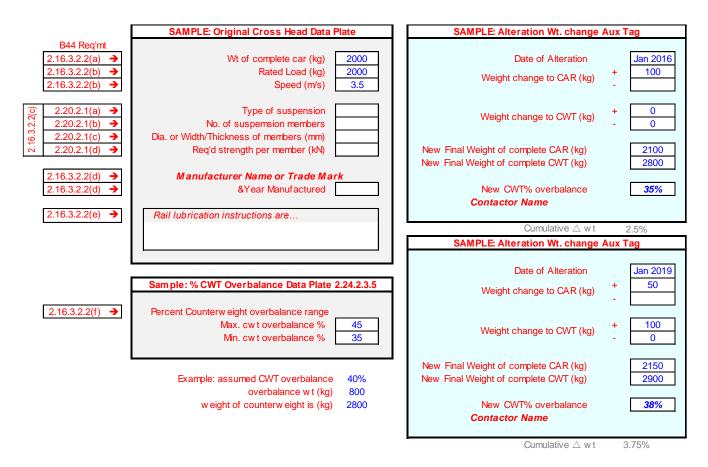
Where an alteration results in

- 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

0	1	2a 2b	2c	3	4	5	6
0 54			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	ement with
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
onf lark	Number		Part, Section or Requirement	Change			Make/Model
o ≥		Job Reference:		•	Γype of Submiss	sion Required	l
	8.7.1.2	Alterations not specifi	cally covered in 8.7	Contac	ct Eng'g		
		1.2	Level of safety shall not be diminished				
	8.7.1.4	Welding					
		8.8	Welding				
		8.7.1.5	Design / Weld Engineer				
	8.7.1.7	Repairs and Replacer	ments				
		8.6.2	for repairs				
		8.6.3	for replacements				
	8.7.1.8	Code Data Plate					
		8.6.1.5	code data plate				
			code in effect at installation				
			code in effect at alteration				
		8.7	applicable alteration scopes				
	8.7.1.9	Alterations Involving S	SIL Rated Device(s)	Minor A	Minor A		
		Ü	identify scope and impact of proposed SIL alteration				
			• •				
	8.7.1.10	Executable Software	Verification and Witness Test				
			> the following executable software for functions listed has	NAS	NAI		
			changed	Minor A	Minor A		
			(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 El	ectric Flevators				
	8.7.2.1	Hoistway Enclosures	ectife Lievators	Major	Major		
	8.7.2.1.1	Hoistway Enclosure V	Valle		Major		
	0.7.2.1.1	2.1.1	Hoistway Enclosures	Major	Major		
		2.1.5					
			Windows and Skylights				
		2.1.6 2.5.	Projections, Recesses, and Setbacks in H/W Horizontal Car and Counterweight Clearances				
		2.5. 2.7.3.4.6	Access Doors and Openings				
		± 2.7.3.4.6 ★ 2.7.3.4.7	Access Doors and Openings Access Doors and Openings				
		× 2.7.3.4.7 2.8.	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
		2.8. <u>8.7.2.10</u>	Entrances and Hoistway Openings (if change includes an entrance)				
		8.7.2.10 2.11.1					
	8.7.2.1.2		Entrances and Emergency Doors Required (if blind H/W)		New		
	0.7.2.1.2	Addition of Elevator to B44-2019	New Installation	-	INEW		
		2.5.					
	8.7.2.1.3		Horizontal Car and Counterweight Clearances	Major	Major		
	0.7.2.1.3	Construction at Top o		Major	Major		
		2.1.2.1	Construction at Top of the Hoistway				
		2.1.3	Floor Over Hoistways				
	07244	8.7.2.4	Vertical Car & Cwt Clearances & Runbys	Major	Maior		
	8.7.2.1.4	Construction at Botton	n of Holstway Construction at Bottom of the Holstway	Major	Major		
		2.1.2.2					
		2422	Strength of Mit Floor				
		2.1.2.3	Dito				
		2.2.	Pits				
	0.7045	2.2. <u>8.7.2.4</u>	Vertical Car & Cwt Clearances & Runbys	N4=:	Maior		
	8.7.2.1.5	2.2. <u>8.7.2.4</u> Control of Smoke and	Vertical Car & Cwt Clearances & Runbys Hot Gases	Major	Major		
		2.2. <u>8.7.2.4</u> Control of Smoke and 2.1.4	Vertical Car & Cwt Clearances & Runbys Hot Gases Control of Smoke and Hot Gases		Major		
			Strength of Pit Floor				
	8.7.2.1.5	2.2. <u>8.7.2.4</u>	Vertical Car & Cwt Clearances & Runbys	Major	Major		
	8.7.2.1.5	2.2. <u>8.7.2.4</u> Control of Smoke and 2.1.4	Vertical Car & Cwt Clearances & Runbys Hot Gases	Major	Major		
	8.7.2.1.5 8.7.2.2	2.2. 8.7.2.4 Control of Smoke and 2.1.4 Pits see other altern	Vertical Car & Cwt Clearances & Runbys Hot Gases	Major Major	Major -		

0	1	2a 2b	2c Alteration Checklist for Director's Order 296 / 22	3	4 Type of Alter	5 ation Work	6
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replac	ement with
form B44 Vit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Sont Mark	Number		Part, Section or Requirement	Change			Make/Model
		Job Reference:			Type of Submiss	sion Require	d
	8.7.2.1.2	Alteration to Pits					
		2.2.	Pits				
		2.1.2.3	Strength of Pit Floor				
	0.7.0.4.0	8.7.2.4	Vertical Car & Cwt Clearances & Runbys	MinanD	Min an D		
	8.7.2.1.2	Pit Drains & Sumps	Pit Drains	Minor B	Minor B		
	8.7.2.1.2	2.2.2. Pit Guards	Pit Drains	Minor B	Minor A		
	0.1.2.1.2	2.2.3	Guards Between Adjacent Pits	IVIIIIOI D	IVIIIIOI A		
	8.7.2.1.2	Pit Access	Guards Between Adjacent Fits	Minor B	Minor A		
	0.7.2.1.2	2.2.4	Pit Access	WIIIIOI D	WIIIIOI A		
	8.7.2.1.2	Pit Illumination	TIL ACCUSS	Minor B	Minor B		
	0.7.2.1.2	2.2.5	Illumination of Pits	WIIITOI D	Willion B		
	8.7.2.1.2	Pit Stop Switches		Minor B	Minor A		
		2.2.6	Stop Switches				
	8.7.2.1.2	Pit Depth	<b>'</b>	Minor B	Minor A		
		2.2.7	Minimum Pit Depths Required				
	8.7.2.1.2	Access to Underside	of Car	Minor B	Minor A		
		2.2.8	Access to Underside of Car				
	8.7.2.2.2	Addition of surface-m	· · · ·	-	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	Location and Guardin		Major	Major		
		•	and test requirements, see 8.10.2.3.2(b)				
	4	2.3. 2.5.1.2	Location and Guarding of Counterweights				
		2.5.1.2 2.6.	Between Car & Cwt and Cwt Guard				
	8.7.2.4		Protection of Space below H/W nterweight Clearances and Runbys (no reduction allowed)	Major			
	0.7.2.4		and test requirements, see 8.10.2.3.2(y)	iviajui	-		
		2.4.	Vertical Clearances & Runbys for Cars & Cwts				
		8.7.2.17.1	Increase or Decrease in Rise				
		8.7.2.17.2	Increase in Rated Speed				
		8.7.2.25.2	Change in Location of Driving Machine				
	8.7.2.5	Horizontal Car and 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	Protection of Spaces	· · · · · · · · · · · · · · · · · · ·	Minor B	Major		
		•	and test requirements, see 8.10.2.3.2(aa)				
		2.6.	Protection of Space below H/W			l	
	8.7.2.7		lachine Rooms Control Spaces and Control Rooms			elow ↓	
	0.7.0.7.4		and test requirements, see 8.10.2.3.2(bb)				
	8.7.2.7.1		an specifics of 8.7.2.7.2 to 8.7.2.7.7		N 4 - ! - ··		
		2.7. (& 3.7.)	New - Machinery Spaces, Machine Rooms Control Spaces & Control Rooms	-	Major		
	-	a = .a					
		2.7. (& 3.7.)	Altered- Machinery Spaces, Machine Rooms Control Spaces & Control	Minor A	-		
			Rooms				
		OESC	Electrical Equipment Clearances	Minor B	-		
	8.7.2.7.2	Means of Access		Minor B	-		
		2.7.3.1	General Requirements				
	-	2.7.3.2	Access Across Roofs				
		2.7.3.3	Means of Access				
	8.7.2.7.3	Access Doors and Op		Minor B	Minor B		mrr
		2.7.3.4	Access Doors and Openings				
		2.7.3.5	Stop Switch for Machinery Space or Control Spaces	N/: 5	N		
	8.7.2.7.4	Headroom (no reductio		Minor B	Minor B		
		2.7.4	Headroom in Machine Rooms/Spaces, Control Room/Spaces				
	8.7.2.7.5	Windows and Skyligh		Minor B	Minor B		
		2.1.5	Windows and Skylights	N/: 5	N.4"		
		#1 100ting /!		Minor B	Minor A		
	8.7.2.7.6	Lighting (no reduction)	Linkthan	WIIIIOI D			
		2.7.9.1	Lighting				
	8.7.2.7.6 8.7.2.7.7		Lighting  Temperature & Humidity	Minor B	Minor B		

B44-19 Reference Number Number   September   September	Alteration Checkular for Director's order 298 (22   speaked Buildenia 242 (22   speaked Buildenia 242 (23   speaked Buildenia 242 (23   speaked Buildenia 242 (24   speake	0	1	2a 2b	2c	3	4	5	6
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0) designed to be handled by one person   3.7.2.8   Electrical Equipment, Winny, Pipos, and Ducts in HWW \$8.MC Rooms   Minor B Minor B mrr Minor	B.7.2.8   Electrical Equipment, Wiring, Pipes, and Dutch in HWYs &MC Rooms   Minor B   Minor B			(h)	, , ,				
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				2.13.					
	0.44.E.7 Destricted C. CO. D. (1.1.1. D. (1.1.1.)								
	2.14.5.7 Restricted Opening of Car Doors (Interlock or Restrictor)								

0	1	2a 2b	2c	3	4	5	6
	·		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
Form B44 k with	Reference		Scope of Alteration - B44 - 2019	Modification	A -1 -1:4:	0	Different
a X	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ပိ 🖺	Nullibei	Job Reference:	,		Type of Submiss	ion Required	
$\vdash$			11		Type of Cubinion	non required	
	0 = 0 40 44 )	2.29.2	Identification of Floors				
3	8.7.2.10.1(c)	•	s - 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				
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
		Entire installation					
		2.12.	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
		2.13.	Power Operation of Hoistway Doors and Car Doors				
		2.13.	·				
		0.4457	2.13.5.3 Detection of Approaching Objects				
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)				
		2.29.2	Identification of Floors				
8	8.7.2.10.1(d)	General Requirements	s - Emergency Doors (added or altered)	Major	Major		
		2.11.1	Entrances and Emergency Doors Required				
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
9	8.7.2.10.1(e)		s - Access Openings (installed for cleaning)	Major	Major		
	(0)	2.11.1.4	Access Opening for Cleaning of Car & H/W Enclosure				
<del>   </del>		8.7.2.10.5	Marking of Entrance Assemblies				
		<u>0.1.2.10.0</u>	Marking of Entrance Assembles				
<del>                                     </del>	0.7.0.40.0	Harimant - LOUIL T	Future and anti-control of the second of the	N.4 - ! .	N 4 - ! :		h ala
	8.7.2.10.2		Entrances - new entrance and components to meet:	Major	Major	see	below
		•	and test requirements, see 8.10.2.3.2(o)				
		<u>8.7.2.10.1</u>	Entrances & H/W Openings - General Req'mts			Ma	ajor
		2.11.11	Entrances, Horizontal Slide Type				
		Installed New o	components to meet:				
	sills (a)	2.11.10.1	Landing-Sill Guards	Min	or B	Min	or 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	Min	or B
	• ,						
	frame (c)	2.11.11.3	Entrance Frames	IVIIN	or A	IVIIN	or 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				
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
	hangers (d)	2.11.11.4	Hangers	Min	or B	Min	or B
	panels (e)	2.11.11.5(*)	Panels	Min	or A	Min	or A
		2.11.11.6	Bottom Guides				
		2.11.11.7	Multipanel Entrances				
		8.7.2.10.5	Marking of Entrance Assemblies				
	retainers (f)			N 4:	D	N 4:	D
-	retainers (f)	2.11.11.8	Hoistway Door Safety Retainers	IVIIN	or B	IVIIN	or B
$\blacksquare$		., .,					
	8.7.2.10.3		ntrances - new entrance and components to meet:	Major	Major	see	below
			and test requirements, see 8.10.2.3.2(o)				
<u> </u>		<u>8.7.2.10.1</u>	Entrances & H/W Openings - General Req'mts			Ma	ajor
┖╶┨		2.11.12	Entrances, Vertical Slide Type				
		Installed New o	components to meet:				
	sills (a)	2.11.10.3	Hinged Hoistway Landing Sills	Min	or B	Min	or B
	` '	2.11.12.1	Landing Sills				
	frames (b)	2.11.12.2	Entrances Frames	Min	or B	Min	or B
<del>   </del>	(5)	8.7.2.10.5	Marking of Entrance Assemblies	IVIII		IVIII	.5, 5
	roile (c)	2.11.12.3	Rails				orr
<del>   </del>	rails (c)				nrr		nrr
<u>                                     </u>	panels (d)	2.11.12.3	Rails	Min	or A	Min	or A
		2.11.12.4	Panels				
		2.11.12.5	Guides				
7		2.11.12.6	Counterweighting or Counterbalancing				
		2.11.12.8	Pull Straps				
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
	guides (e)	2.11.12.5	Guides				
	sill guard (f)	2.11.12.7	Sill Guards	n	nrr	n	nrr
<del>   </del>	sili guard (i) straps (g)			"		"	
	straps (g)	2.11.12.8	Pull Straps				
$\blacksquare$		0 : 7 -					
	8.7.2.10.4		s - new entrance and components to meet:	Major	Major	see	below
		•	and test requirements, see 8.10.2.3.2(o)				
		8.7.2.10.1	Entrances & H/W Openings - General Reg'mts			Ma	ajor

0	1	2a 2b	20	3	1	5	6
			Alteration Checklist for Director's Order 296 / 22	3	Type of Alter	ation Work	O
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alter	ration		ment with
rorms B44 k with	Reference		Scope of Alteration - B44 - 2019	Modification		_	Different
mg y	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
လ Wa	Number	Job Reference:	Turi, econom en ricquirement	T	Type of Submiss	ion Paguirad	l
					Type of Submiss	sion Required	
		2.11.13	Entrances, Swing Type				
		Installed New c	omponents to meet:				
	sills (a)	2.11.10.1	Landing-Sill Guards	Min	or B	Mir	or B
		2.11.10.3	Hinged Hoistway Landing Sills				
		2.11.13.1	Landing Sills				
	frames (b)	2.11.13.2	Entrance Frames	Min	or B	Mir	or B
	(2)	2.11.13.4	Hinges		Ю В	14111	101 B
		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
	panels (c)	2.11.13.3	Panels	Min	or B	Mir	or 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	m	nrr	n	nrr
	8.7.2.10.5	Marking of Entrance A	ssemblies (Alteration to an Entrance or Door Panel)	Major	Major		
	0.7.2.10.5	Marking of Littlatice A		Major	iviajoi		
		0 = 0 += =/ .	Fire Protection Rating not less then existing entrance				
	10 = 2 ( )	8.7.2.10.5(a)	labeled per NBCC requirements				
	[8.7.2.10]★1	★ Removing Service	e To a Floor	Min	or 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 Retain	ers	Minor B	Minor A	mrr	Minor B
		2.11.11.8	Hoistway Door Safety Retainers				
	8.7.2.11	Hoistway Door-Locking	g Devices, Access Switches & Parking Devices		See Be	elow 1	
			and test requirements, see 8.10.2.3.2(dd)				
	8.7.2.11.1	Interlocks		_	Major	mrr	Minor B
	0.7.2.11.1	2.12.1	General		iviajoi	11111	WIIIIOI B
		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	ı/a
		2.12.7	Hoistway Access Switches (n/a for column 5,6)			n	ı/a
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)				
		2.24.8.3	Driving-Machine Brake				
	8.7.2.11.2	Mechanical Locks and	l Electric Contacts	-	Major	mrr	Minor B
		2.12.1	General		,		
		2.12.3	H/W Door Combination Mechanical Locks & Contacts				
		2.12.3	Listing/Certification Locking Devices				
			ŭ i				
		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					
		Addition of Unlocking	•	-	Minor B	n	nrr
	. (/	2.12.6	Hoistway Door Unlocking Devices		. =		
		2.24.8.3	Driving-Machine Brake				
		2.24.0.0	Driving Waterine Drake				
	0.7.0.44.4.(1.)	A ddition of A	italian		N 42 A		
	8.7.2.11.4 (b)	Addition of Access Sw		-	Minor A	n	nrr
		2.12.7	Hoistway Access Switches				
		2.24.8	Braking System and Driving-Machine Brake				
		2.26.1.4	Inspection Operation				
	8.7.2.11.5	Restricted Opening of	H/W or Car Doors of Passenger Elevators (Restrictors) (Altered or Installed)	Minor B	see below	mrr	Minor B
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)				
		2.14.5.7(a)	, ,		Minor A		
$\mathbf{H}$		2.14.5.7 (a)			WIII IOI A		
		0.44.5.70.1			Minar		
		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		

0	1	2a   2b   2c	3	4	5	6
ò X	B44:19	Alteration Checklist for Director's Order 296 / 22	Alte	Type of Alteration	ation Work Replace	ement with
Conforms to B44 Mark with 'X'	Reference	(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019	Modification			Different
onto B lark	Number	Part, Section or Requirement	Change	Addition	Same	Make/Model
ວ ≥		Job Reference:	1	ype of Submiss	ion Required	
	8.7.2.12	Power Operation of Hoistway Doors (Addition / Alteration to Power Open or Close)	Minor A	Minor A		
		For inspection and test requirements, see 8.10.2.3.2(a) 8.7.2.10.1 Entrances & H/W Openings - General 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				
		Installed New or Modified components and wiring to meet:				
		8.7.2.8 Electrical Equipment, Wiring				
		2.26.4.2 Listed/Certified and Labeled/Marked B44.1/A17.5 if New				
	[8.7.2.12] *1	★ Replacement of Door Operator			mrr	Minor B
	[0.7.2.12] * 1	2.13.(*) Power Operation of Hoistway Doors and Car Doors	-	-	11111	MILIOLD
		except 2.13.5.3 Detection of Approaching Objects <i>if not previously</i>				
		provided				
		except 2.13.5.5 Self Monitoring if not previously provided				
		except 2.13.5.6 Maintenance Testing if not previously provided				
		[8.7.2.15] * 1, * 2				
	0.7.0.40	Dear Dear anima Device (Cofety Educ) (Added on Device of an Albandian)	Min an D	MinanD		MinanD
	8.7.2.13	Door Reopening Device (Safety Edge) (Added or Part of an Alteration)  For inspection and test requirements, see 8.10.2.3.2(ee)	Minor B	Minor B		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				
		2.13.5.4 Detection of Objects in the Door Path				
		if FEO provided, door opening & closing to PHI &II at time of				
		Door Reopening Device (Safety Edge) (Replacement - Mech-Mech or Elec to Elec)			mrr	mrr
		no change in detection features				ee
					8.6	3.3.8
		Door Reopening Device (Safety Edge) (Replacement - Mech-Elec or 2D Elec to 3D Elec)  2.13.4 Closing Limitations for Power Operated HS Doors & Gates			-	Minor B
		3 y				
		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				
		ii i 20 provides, deer opering a crossing to i i ii dii at am e				
	8.7.2.14	Car Enclosures, Car Doors 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	Installation of New Car Enclosure	Major	-		
l		2.14.* Car: Enclosure, Doors, Gates, Illumination				
		2.15. Car Frames & Platforms 2.17 Car and counterweight safeties				
		8.7.2.15.1 Alterations to Car Frames and Platforms				
	8.7.2.14.2	Alteration to Existing Cars	Minor A	Minor A		
	8.7.2.14.2(a)	Car Enclosure - Securing of Enclosures	Minor A	Minor A		
		2.14.1.2 Securing of Enclosures				
Ш	8.7.2.14.2(b)	Top Emergency Exit (Altered or Added)	Minor B	Minor B		
	0.7.0.44.0(-)	2.14.1.5 Top Emergency Exits	Minar	Minar		
	8.7.2.14.2(c)	Installation of Glass 2.14.1.8 Glass in Elevator Cars	Minor B	Minor B		
		2.14.1.8.1 Enclosures include glass				
		2.14.1.8.2 Lining of Walls or Ceilings include glass			mrr	
		2.14.1.8.3 Marking of each Glazing Panel				
	8.7.2.14.2(d)	Specific Equipment in Elevator Car	Minor B	Minor B	n	nrr
		2.14.1.9 Equipment Inside Cars				
1 1		(a) Handrails				
		(b) fastening devices for protective linings				
		<ul><li>(b) fastening devices for protective linings</li><li>(c) ceiling mounted hooks/tracks</li></ul>				
		<ul><li>(b) fastening devices for protective linings</li><li>(c) ceiling mounted hooks/tracks</li><li>(d) picture frames display boards, plaques</li></ul>				
		<ul><li>(b) fastening devices for protective linings</li><li>(c) ceiling mounted hooks/tracks</li><li>(d) picture frames display boards, plaques protrusion &lt;38mm</li></ul>				
		<ul><li>(b) fastening devices for protective linings</li><li>(c) ceiling mounted hooks/tracks</li><li>(d) picture frames display boards, plaques</li></ul>				
		<ul> <li>(b) fastening devices for protective linings</li> <li>(c) ceiling mounted hooks/tracks</li> <li>(d) picture frames display boards, plaques protrusion &lt;38mm secured to 2.14.1.2</li> </ul>	mrr (not	Minor B)		
		<ul> <li>(b) fastening devices for protective linings</li> <li>(c) ceiling mounted hooks/tracks</li> <li>(d) picture frames display boards, plaques protrusion &lt;38mm secured to 2.14.1.2 material to 2.14.2.1</li> </ul>	mrr (not	Minor B)		

0	1	2a 2b	2c	3	4	5	6
			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	ement with
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
onf E Iark	Number		Part, Section or Requirement	Change	Addition	Cumo	Make/Model
ს ≥		Job Reference:		7	Type of Submiss	sion Required	d
		[8.7.2.15]★1.★	weight additions <115kg and <5%				
		[•] .,					
	[8.7.2.14]★1	★ Car operating static	on	Minor B	Minor B	mrr	Minor B
	[0.1.12.1.1]	our operating states	verify inspection operation 'if provided'				
			verify stop sw				
			verify switches operate as before (eg. FS, FEO, Access)				
		[8 7 2 15] ★1 ★	weight additions <115kg and <5%				
		[0.7.2.10] * 1, *	weight additions 113kg and 1370				
	[0 7 0 14] + 0	+ video comerce / eu	www.illanca.aguinment / videa menitera	Minor B	Minor B	no en	Minor B
	[0.7.2.14] * 2	2.8.2.1	rveillance equipment / video monitors	MILIOI D	MILIOI D	mrr	IVIII IOI B
			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%				
	[8.7.2.14]★3	★ touchless or hands		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				
	8.7.2.14.2(e)	Side Emergency Exits	- Secured Shut	Major	-		
	8.7.2.14.2(f)	Car Ventilation		Minor B	see below	mrr	see below
	( )	2.14.2.3	Ventilation		Minor B		Minor B
	[8.7.2.14]★4	★ ventilation with air	purification	Min	or A		Minor A
	[	2.14.2.3	ventilation				
		2.1.1.2.0	if dimensions impact overhead clearances;				
			2.4.7 Top-of-Car Clearances				
		[Q 7 2 15]±1 ±	weight additions <115kg and <5%				
	0 7 2 14 2(a)	Car Illumination	weight additions <113kg and <370	Minor B	Minor B		mrr
	8.7.2.14.2(g)	2.14.7	Illumination of Care and Lighting Fixtures	IVIIIIOI B	IVIIIIOI B	ı	mrr
	0.7.0.44.0(b)		Illumination of Cars and Lighting Fixtures	Maian	Maian		MinanD
	8.7.2.14.2(h)	Partitions Installed in E		Major	Major	mrr	Minor B
		2.16.1.2	Use of Partitions for Reducing Inside Net Platform Area				
	TO = 0 447 + =		weight additions <115kg and <5%				
	[8.7.2.14]★5	★ Partitions in Elevate	ors 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,★	weight additions <115kg and <5%				
	8.7.2.14.2(i)	Installation of Car Doo	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				
	8.7.2.14.4	Alteration to Car Encl	osure other than 8.7.2.14.2 - Enclosure Materials	Min	or B	mrr	
		2.14.2.1.2	flame and smoke levels				
		2.14.2.1.3	padded protective linings				
		2.14.2.1.4	List of items excluded from 2.14.2.1 compliance				
			'				
	[8.7.2.14]★6	★ Installation of Vinvl	Graphics - Car Interiors	Min	or B		
		2.14.2.1.2	Data sheets to reflect conformance to flame and smoke levels				
	O.Reg.209/01s30	★ Relocation of Fleve	ator License to remote location	Minor B†	_		
		A COLOGUE OF LICVE	L. L	.,			
$\vdash$	8.7.2.14.5	Addition of Car Top Ra	ailing	Minor B	Minor A		Minor A
	0.7.2.14.0		and test requirements, see 8.10.2.3.2(rr)	WILLION D	WIII IOI A	_	WILLIOI A
				Minor P	Minor A		Minor A
		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				
		0 7 0 4 : 7 7	0, 1, 5,1,1, 0, , , , ,	14: -			
		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				
						_	

0	1	2a 2b 2c	3	1	5 6
U		Alteration Checklist for Director's Order 296 / 22	3	Type of Altera	ation Work
ō ×	B44:19	(see also Guideline 296 / 22)	Alte	ration	Replacement with
Conforms to B44 Mark with 'X	Deference	Scope of Alteration - B44 - 2019	Modification		Different
nform B44 rk wit	Reference	Part, Section or Requirement	Change	Addition	Same Make/Mode
ດວ Ma	Number				
		Job Reference:		Type of Submiss	sion Required
		(e) positively opening switch when leaving extended position			
		(f) single failure protection			
		(g) means to prevent upward movement beyond allowed point			
		(h) when extended railing meets 2.10.2			
		(i) force to retract not to exceed 220N (50 lbf)			
		(1) 10100 to 10th dot 110t to 0x0000 22011 (00 151)			
	10 7 0 4 41 4 7		.,		
	[8.7.2.14]★7	★ Installation of other equipment	Vari	ance	
	8.7.2.15	Car Frames and Platforms			
	8.7.2.15.1	Alterations to Car Frames and Platforms	Major	-	Major
		For inspection and test requirements, see 8.10.2.3.2(qq)			_
		2.15. Car Frames & Platforms			
	[8.7.2.15]★0		Minor B	Minor B	
	[0.7.2.10] * 0		WILLIOL D	WILLIOL D	
		(a) weight of complete car			
		(b) rated load and rated speed			
L I		(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			
		(1) portonit overbalanto rango (Milit - Max) 2.24.2.0.0			
	[0 7 0 4 5] + 4	+ Cumulativa Degreese Deaduraint 450/	Minar	Minario	
		★ Cumulative Decrease Deadweight <5%	Minor B	Minor B	
	[8.7.2.15]★1	★ Cumulative Increase Deadweight of Car (Less than 115 kg and Less than 5%)	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			
		(e) testing prior to operation to ensure security of interior limsnes			
	10.7.0.451.4.0				
	[8.7.2.15]★2	★ Cumulative Increase Deadweight of Car (>115 kg to 5%)	Minor A	Minor A	
		[8.7.2.15]★1			
		engineering assessment 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	-	
		For inspection 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			
L I		2.18. Speed Governors			
		2.20.(*) Suspension Means & Their Connections			
		2.21.(*) Counterweights			
		2.22.(*) Buffers & Bumpers			
		, 11 ,			
		2.24.(*) Driving Machines & Sheaves			
		8.7.2.9 Machinery and Sheave Beams, Supports, Foundations			
		[8.7.2.15]★1(a) to (e)			
	8.7.2.16	Capacity, Loading, and Classification		See Be	elow ↓
	8.7.2.16.1	Change in Type of Service: Passenger to Freight OR Freight to Passenger	Major		
	5.7. <u>2</u> .15.1	For inspection and test requirements, see 8.10.2.3.2(q)	major		
		2.11.1 Entrances and Emergency Doors Required			
		2.11.2 Types of Entrances			
		2.11.3 Closing of Hoistway Doors			
		2.11.5 Projection of Entrances & Equip. Beyond Land'g Sills			
		2.11.6 Opening of Hoistway Doors			
		2.11.7 Glass in Hoistway Doors			

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		24 25	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
Conforms to B44 Mark with 'X	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
onto ark	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ບັ ≥		Job Reference:		1	Type of Submiss	ion Required	
		2.11.8	Weights for Closing or Balancing Doors				
		2.12.	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
		2.13.	Power Operation of Hoistway Doors and Car Doors				
		2.10.	2.13.5.3 Detection of Approaching Objects				
		2.22 (*)	Buffers & Bumpers				
		2.14.	·				
			Car: Enclosure, Doors, Gates, Illumination				
			car top guard rail				
		2.15.(*)	Car Frames & Platforms - ★apron guard to ED CAD/as pit permits				
		2.16.	Capacity & Loading				
		2.17.(*)	Car & Cwt Safeties				
		2.18.(*)	Speed Governors				
		2.19.	Ascending Car Overspeed & Unintended Car Movement Protection				
		2.20.(*)	Suspension Means & Their Connections (except as per				
			8.7.2.21.4)				
			(a) if traction-loss detection altered or added, then per 2.20.8.1				
			(b) if broken member detection altered or added, then per				
			2.20.8.2				
			(c) if strength detection altered or added, then per 2.20.8.4				
		2.24.(*)	Driving Machines & Sheaves				
		2.25.	Terminal Stopping Devices				
		2.26.	Operating Devices and Control Equipment				
		2.27.	Emergency Operation & Signaling Devices				
		2.21.	2.27.1 Car Emergency Signalling Devices				
			2.27.1.1.3 video / camera to observe passenger				
			2.27.2 Emergency or Standby Power systems				
			2.27.3 FEO: Automatic Elevators				
			CAD 2.27.3.2.2 & CAD 2.27.3.2.4				
			2.27.4 FEO: Non-Automatic Elevators				
			2.27.5 FEO: Automatic Elevators w/Attendant				
			2.27.6 FEO: Inspection Operation				
			2.27.7 FEO: Operating Procedures				
			2.27.8 Switch Keys				
			2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC				
	8.7.2.16.2	Change in Class of Lo	pading: [from any class to any other class ie A, B, C1, C2, C3]	Major	-		
		For inspection	and test requirements, see 8.10.2.3.2(p)				
		2.16.2	Minimum Rated Load for Freight Elevators				
		8.7.2.16.4	Increase in Rated Load				
		2.16.1.3	if changing freight loading class of a passenger elevator				
	8.7.2.16.3	Carrying of Passenge	rs on Freight Elevators	Major	-		
			and test requirements, see 8.10.2.3.2(q)	,			
			Car doors or gates shall be provided at all car entrances				
			New Car doors and gates to: 2.14.4, 2.14.5(*), 2.14.6				
		2.14.4	Passenger & Frt Car Doors & Gates, General Req'mts				
		2.14.5	Passenger Car Doors				
		2.14.6	Freight Elevator Car Doors and Gates				
$\vdash$		2.15.(*)	Car Frames & Platforms- ★apron guard to ED CAD/as pit				
		2.16.	Capacity & Loading				
		2.17.	Car & Cwt Safeties				
		2.18.(*)	Speed Governors				
		2.10.( ) 2.19.	•				
			Ascending Car Overspeed & Unintended Car Movement Protection				
		2.20.(*)	Suspension Means & Their Connections				
		2.21.(*)	Counterweights				
		2.22.(*)	Buffers & Bumpers				
		2.23.	Car & Cwt Guides Rails, Guide Rail Support, Fastenings				
		2.24.	Driving Machines & Sheaves				
		2.26.1.4	Inspection Operation				
		2.26.1.5	Inspection Operation with Open Door Circuits				
		2.26.5	System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts				
		<u>8.7.2.9</u>	Machinery and Sheave Beams, Supports, Foundations				
	8.7.2.17	Change in Rise or Ra	ted Speed	Major	-		
		-					

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		Zu Zb	Alteration Checklist for Director's Order 296 / 22	<u> </u>	Type of Altera		
Conforms to B44 Mark with 'X	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
omt ark	Number		Part, Section or Requirement	Change	Addition	Game	Make/Model
ວ ≥		Job Reference:		-	Type of Submiss	sion Required	
		For inspection	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				
		Increase in Rated Spe		Major	-		
	8.7.2.17.2(a)	Increase in Rated Spe	eed on a Winding Drum machine	Major	-		
			Increase in Rated Speed of a winding drum m/c prohibited				
			except as permitted 8.7.2.17.2(c)				
	8.7.2.17.2(b)	Increase in Rated Spe	eed except as per 8.7.2.17.2(c)	Major	-		
		2.4.2	Minimum Bottom Runby for Counterweighted Elevators				
		2.4.3	Minimum Bottom Runby for Uncounterweighted Elevators				
		2.4.4	Maximum Bottom Runby				
		2.4.5	Counterweight Runby Data Plate				
		2.4.6	Maximum Upward Movement of the Car				
		2.4.7	Top of Car Clearances				
		2.4.8	Top of Counterweight Clearances				
		2.4.9	Equipment on Top of Car Not Permitted to Strike O/H				
		2.5.	Horizontal Car and Counterweight Clearances				
		2.0.	Car doors or gates shall be provided at all car entrances				
		2.14.(*)	New doors/gates to: Car: Enclosure, Doors, Gates, Illumination				
		2.14.( )					
			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 Spe	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				
		8.7.2.27.3	Change in Power Supply				
		3	3				
	8.7.2.17.3	Decrease in Rated Sp	peed	Major	-		
		2.4.	Vertical Clearances & Runbys for Cars & Cwts	,			
		2.18.2	Tripping Speeds for Speed Governors				
		2.16.	Capacity & Loading				
		2.16.3(*)	Capacity and Data Plates				
		2.16.3( )	Electrical Equipment and Wiring				
		2.26.4.2	Drive Machine Controllers for Stopping/Starting/Controlling				
		2.26.4.3	Positively Opened Contacts				
	0 = 0 40	0 10 1	10.65			по г	, n
	8.7.2.18	Car and Counterweigl		Major	Major	∜See I	Below ₽
	0 = 0 :0 :		and test requirements, see 8.10.2.3.2(e)				N4: .
	8.7.2.18.1	New Car Safeties		-	Major	mrr	Minor A
		2.17.	Car & Cwt Safeties				
		2.18.	Speed Governors				
		2.23.(*)	Car & Cwt Guides Rails, Guide Rail Support, Fastenings				
		<u>8.7.2.19</u>	Speed Governors and Governor Ropes				
			Pogld /*\=w/Evamptions +=TSSA Designated Alteration or Requirement m				

0	1	2a   2b   2c		4		5 6	
0		Alteration Checklist for Director's Order 296 / 22			of Alteration	n Work	
s to	B44:19	(see also Guideline 296 / 22)		Alteration		Replacement with	th
form: B44 k with	Reference	Scope of Alteration - B44 - 2019	Modifie	cation	tion	Differe	rent
Conforms to B44 Mark with 'X	Number	Part, Section or Requirement	Cha	nge Addit	tion	Same Make/M	Model
ວັ ≅ັ		Job Reference:		Type of S	Submission	Required	
	8.7.2.18.2	New Cwt Safeties		Ma		mrr Mino	or A
	0.7.2.10.2	2.17. Car & Cwt Safeties		ivia	joi	TITIT WILLIO	71 /
		2.18. Speed Governors					
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		, , , , , , , , , , , , , , , , , , , ,	ngs				
	0.7.0.40.0	8.7.2.19 Speed Governors and Governor Ropes	N4-	:			^
	8.7.2.18.3	Existing Car Safeties	Ma	jor -		mrr Mino	or A
		2.17.(*) Car & Cwt Safeties					
		2.18. Speed Governors					
		2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenii	ngs				
		8.7.2.19 Speed Governors and Governor Ropes					
	8.7.2.18.3	Existing Cwt Safeties	Ma	jor -		mrr Mino	or A
		2.17. Car & Cwt Safeties					
		2.18. Speed Governors					
		2.23. Car & Cwt Guides Rails, Guide Rail Support, Fastenii	ngs				
		8.7.2.19 Speed Governors and Governor Ropes					
	8.7.2.19	Speed Governors and Governor Ropes	Ma	jor Ma	jor		<u>û</u>
		For inspection and test requirements, see 8.10.2.3.2(f)					
	8.7.2.19	2.18. Speed Governors				mrr Mino	or A
						see	
					8	3.6.3.6	
	8.7.2.19	2.17.15 Governor Rope Releasing Carriers				mrr mr	rr
						see 8.6.3.9	)
	8.7.2.19	Governor Ropes of different material or Construction to:				- Mino	or B
		2.18.6 Design Gov'r Rope Retarding Means for Type	B Safeties				
		2.18.7 Traction between Speed Governor Rope & Sh					
		& testing to 2.17.3 Function and Stopping Distances of Safeties					
		3					
	8.7.2.20	Ascending Car Overspeed and Unintended Car Movement Protection (ACO	& UCM) Mine	or A Ma	jor	mrr Mino	or A
	8.7.2.21	Suspension Means and Their Connections	,	₽ S	ee Belo	w ⊕	
	8.7.2.21	Suspension Means and Their Connections  For inspection and test requirements, see 8.10.2.3.2(gg)	, and the second	↓ S	See Belo	M Û	
	8.7.2.21 8.7.2.21.1		Ma		See Belo	w ⊕	
		For inspection and test requirements, see 8.10.2.3.2(gg)			See Belo	w ⊕	
		For inspection and test requirements, see 8.10.2.3.2(gg) Change in Number of, or Diameter of Suspension Member	Ma		See Belo	w Φ	
		For inspection and test requirements, see 8.10.2.3.2(gg) Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections	Ma		See Belo	w Ū	
		For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means	Ma	jor -	See Belo	<b>w</b> Φ	
	8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member  2.20. Suspension Means & Their Connections  PEO to certify existing sheaves w/different ropes are	Ma	jor -	See Belo	w Φ	
	8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means	Ma satisfactory Mine	jor -	See Belor	w ↓	
	8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections	Ma satisfactory Mine	jor -	See Belo		
	8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections	Ma satisfactory Mine	or A -		see	
	8.7.2.21.1 8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers	satisfactory  Mino	or A -		see	
	8.7.2.21.1 8.7.2.21.1	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers	satisfactory  Mino satisfactory  Mino	or A -	or B	see	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices	satisfactory  Mino	or A -	or B	see	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections	satisfactory  Mino satisfactory  Mino	or A -	or B	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices	satisfactory  Mino satisfactory  Mino	or A - or B Mind	or B jor	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection	satisfactory  Mino satisfactory  Mino Ma	or A - or B Mind	or B jor	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss	satisfactory  Mino satisfactory  Mino Ma	or A - or B Mino jor Ma	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection	satisfactory  Mino satisfactory  Mino Ma	or A - or B Mino jor Ma	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers 2.20.5 Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection	satisfactory  Mino satisfactory  Mino Ma	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  Elevators pre A17.1/B444-2007 to 2008a are exempt from	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  Elevators pre A17.1/B44-2007 to 2008a are exempt from 2.20.8 Suspension Means Monitoring and Protection	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  Elevators pre A17.1/B444-2007 to 2008a are exempt from	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino jor Maj or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  Elevators pre A17.1/B444-2007 to 2008a are exempt from 2.20.8 Suspension Means Monitoring and Protection 2.20.11 Suspension Member Test	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino jor Maj or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights	satisfactory  Mino satisfactory  Mino Ma  Mino Mino Mino	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  Elevators pre A17.1/B444-2007 to 2008a are exempt from 2.20.8 Suspension Means Monitoring and Protection 2.20.11 Suspension Member Test  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii)	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection  Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights 8.7.2.22.2 Rod Type Counterweights	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights 8.7.2.22.2 Rod Type Counterweights 8.7.2.22.2	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights 8.7.2.22.2 Rod Type Counterweights 8.7.2.23. Location and Guarding of Counterweights Rod Type Cwt - can retain if:	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights 8.7.2.22. Rod Type Counterweights 8.7.2.23 Location and Guarding of Counterweights Rod Type Cwt - can retain if: Minimum of 2 suspension and 2 tie rods	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	
	8.7.2.21.1 8.7.2.21.2 8.7.2.21.3 8.7.2.21.4 8.7.2.21.4(a) 8.7.2.21.4(b) 8.7.2.21.4(c) 8.7.2.21.4(d) 8.7.2.21.4(d)	For inspection and test requirements, see 8.10.2.3.2(gg)  Change in Number of, or Diameter of Suspension Member 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Change in Material / Grade of Suspension Means 2.20. Suspension Means & Their Connections PEO to certify existing sheaves w/different ropes are  Addition of Suspension Member Equalizers 2.20.5 Suspension Member Equalizers Addition of Auxiliary Suspension Member Fastening Devices 2.20.10 Suspension Means & Their Connections  Suspension Means Monitoring and Protection Traction Loss Detection 2.20.8.1 Protection Against Traction Loss  Broken Suspension Means Detection 2.20.8.2 Broken Suspension Member  Suspension Member Residual-Strength Detection 2.20.8.3 Broken Suspension Member  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  Counterweights  For inspection and test requirements, see 8.10.2.3.2(ii) Alteration to any part of a cwt except guiding members 2.21. Counterweights 8.7.2.22.2 Rod Type Counterweights 8.7.2.23. Location and Guarding of Counterweights Rod Type Cwt - can retain if:	satisfactory  Mine satisfactory  Mine Ma  Mine Mine	or A - or B Mino or A Mino or A Mino or A Mino	or B jor or A	see 8.6.3.2	

0	1	2a 2b	2c	3	4	5	6
		Zu Zb	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
form B44 k witl	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
omt ark	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ნ ≥		Job Reference:		-	Type of Submiss	sion Required	
		2.21.2.3	Factor of Safety				
		2.21.2.0	Tie Rods:				
		2.21.1.2	Retention of Weight Sections				
	8.7.2.22.3		r guide shoes added	n	orr		orr
	0.1.2.22.3		· ·	11	nrr	1	nrr
		salety Jaws car	nnot touch rails if not activated				
	0 = 0 00	0	4 D. # 4 D	N.4 - 1			Minne
	8.7.2.23		nt 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		s, 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	<b>Driving Machines and</b>	Sheaves			elow ↓	
	8.7.2.25.1	Alter / Replace	Driving Machines & Sheaves	Major	Major	M	ajor
	8.7.2.25.1(a)		Driving Machine Installed as part of an alteration	Major	-		
	, ,	For inspection	and test requirements, see 8.10.2.3.2(r)				
		8.10.2.3.2(r)	12				
		2.7.2	Maintenance Path and Clearance				
			to extent existing installation permits				
		2.9.	Machinery & Sheave Beams, Supports, Foundation				
		2.10.1	Guarding of Equipment				
		2.19.	Ascending Car Overspeed & Unintended Car Movement Protection				
		2.20.	Suspension Means & Their Connections				
		2.24.	Driving Machines & Sheaves				
		2.26.8	Release and Application of Driving-Machine Brakes				
	8.7.2.25.1(b)	Alter / Replace	Driving Machine Components - affected component complies w/	Major			
		2.24.2	Sheaves and Drums			mrr	Major
		2.24.3	Factor of Safety for Driving Machines and Sheaves				
		2.24.4	Fasteners Transmitting Load				
		2.24.5	Shafts Fillets and Keys				
		2.24.6	Cast-Iron Worms and Worm Gears				
		2.24.7	Friction Gearing and Clutches				
		2.24.8	Braking Systems & Driving Machine Brakes			mrr	Major
		2.24.9	Indirect-Driving Machines				ajo.
		2.26.8	Release and Application of Driving-Machine Brakes				
			and test requirements, see 8.10.2.3.2(h)				
		1 of inspection	If driving-machine brake is altered				
		For inspection	and test requirements, see 8.10.2.3.2(v)				
	0.7.0.05.1(a)	· ·		Major		100 FF	Major
	8.7.2.25.1(c)	Change of 2.24.2	Driving Machine Sheave	Major	-	mrr	Major
			Sheaves and Drums				
		2.24.3	Factor of Safety for Driving Machines and Sheaves				
		2.24.4	Fasteners Transmitting Load				
		2.20.	Suspension Means & Their Connections				
			and test requirements, see 8.10.2.3.2(w)				
	8.7.2.25.2	Change in Location of		Major	-		
	8.7.2.25.2(a)		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				
		2.7.9	Lighting, Temperature and Humidity				
		2.8	Equipment in Hoistways, Machine or Control / Rooms or Spaces				
		2.9.	Machinery & Sheave Beams, Supports, Foundation				
		2.10.	Guarding of Equipment and Standard Railing				
		2.19	Ascending Car Overspeed & Unintended Car Movement Protection				
		2.20.	Suspension Means & Their Connections				
		2.20. 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)				

0	1	2a 2b 2c	3	1	5 6
		Alteration Checklist for Director's Order 296 / 22	Ŭ.	Type of Altera	
Conforms to B44 Mark with 'X	B44:19	(see also Guideline 296 / 22)	Alte	ration	Replacement with
form B44 k wit	Reference	Scope of Alteration - B44 - 2019	Modification	Addition	Same Different
onfo B ark	Number	Part, Section or Requirement	Change	Addition	Make/Mode
ວັ ≅ັ	i tuiliboi	Job Reference:	-	Type of Submiss	ion Required
	8.7.2.25.2(b)	Change in Location of Driving Machine w/ change in Rise	Major	_	
	0.7.2.20.2(8)	For inspection and test requirements, see 8.10.2.3.2(i)	Major		
		8.7.2.25(a) all items from above			
-		` '			
		8.7.2.17.1 Increase or Decrease in Rise			
	TO T O OFT : 4	See 8.7.2.17 for applicable testing requirements			
	[8.7.2.25]★1	★ Replacement of worm and/or gear (specify make)	-	-	mrr Minor A
		2.24 specify compliance to the applicable requirements			
		Addition of Machine Guarding - see CAD [8.7.2.7]★1			
	8.7.2.26	Terminal-Stopping Devices	Minor B	Minor B	
		For inspection and test requirements, see 8.10.2.3.2(k)			
		2.25. Terminal Stopping Devices			
	8.7.2.27	Operating Devices and Control Equipment			elow 🖟
	-	For inspection and test requirements, see 8.10.2.3.2(jj)			
	8.7.2.27.1	Inspection Operation and Inspection Operation with Open Door Circuits			
	8.7.2.27.1(a)	Alteration or Addition of any type of Inspection Operation	Minor A	Minor A	mrr Minor A
	0.7.2.27.1(a)	2.26.1.4 Inspection Operation	WIIIOI A	WIIIIOI A	TITI WILLOW
<del>                                     </del>		see CAD 3.8.3			
	0.7.0.07.4%	[8.7.2.15] * 1, * 2	N4: .	N.C.	
	8.7.2.27.1(b)	Alteration or Addition 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-Leveling or Truck-Zoning Devices	Minor A	Minor A	
		For inspection 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	Change in Power Supply	Major	-	
		For inspection and test requirements, see 8.10.2.3.2(II)	,		
		(a) voltage, frequency or # of phases or			
		(b) AC to DC, DC to AC or			
		(c) combination of DC & AC, then			
		electrical to:			
		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			
1		2.26.10 Absorption of Regenerated Power			
1					
<u> </u>		new / modified equipment and wiring to:			
		2.26.4.1 Electrical Equipment and Wiring			
		2.26.4.2 Drive Machine Controllers for Stopping/Starting/Controlling			
		2.26.4.3 Positively Opened Contacts			
		brakes to:			
		2.24.8 Braking Systems & Driving Machine Brakes			
		2.26.8 Release and Application of Driving-Machine Brakes			
		winding drum to:			
		2.25.3.5 Additional Req'mts for Winding Drum Machines			
		see 8.7.2.17.2(b) Increase in Rated Speed			
	8.7.2.27.4	Controllers			
	8.7.2.27.4(a)	Install / Replace Motion Controller (no change in method of Motion Control)	Major	_	Major
	5.7.2.27.4(u)	For inspection and test requirements, see 8.10.2.3.2(s)	major		major
		2.7.2 Maintenance Path and Clearance			
		8.7.2.7.2 Means of Access			
		2.7.9 Lighting, Temperature and Humidity			
		8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.			
		2.26.4.2 Listed/Certified and Labeled/Marked			
		2.19(*) ACU and UCM Protection			
		2.26.9 Control and Operating Circuits			
$\mathbb{L}^{-1}$		2.29. Identification			
		allation, t-No Inspection Books, /*\=w/Evamptions, ±-TSSA Designated Alteration or Beguirement, m			

0	1	2a 2b	2c	3	4	5 6
			Alteration Checklist for Director's Order 296 / 22	3	Type of Altera	ation Work
Contorms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replacement with
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same Different
onto ark	Number		Part, Section or Requirement	Change	Addition	Make/Model
ວັ ≥		Job Reference:			ype of Submiss	sion Required
	8.7.2.27.4(b)	Install / Replace	Operation Controller (no change in method of Operation	Major	_	Major
	0.7.2.27.1(5)	motali / Mopiado	Control)	Major		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			
		<u>8.7.2.7.2</u>	Means of Access			
		2.7.9	Lighting, Temperature and Humidity			
		<u>8.7.2.8</u>	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			
			<b>5</b> . <b>5 5</b>			
	8.7.2.27.4(c)	Install / Replace	Motion & Operation Controller (no change in method of either)	Major	-	Major
	( )	,	,			Í
		•	and test requirements, see 8.10.2.3.2(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			
		<u>8.7.2.8</u>	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 Contacts			
		2.26.6	Phase Protection of Motors			
		2.26.7	Installation of Capacitors/Devices Making EPD's Ineffective			
		2.26.8	Release and Application of Driving-Machine Brakes			
		2.26.9	Control & Operating Circuits			
		2.26.11	Car Platform to Hoistway Door Sills Vertical Distance			
			levelling accuracy to 13mm (0.5 in.)			
		2.27.2	Emergency or Standby Power System			
			as modified by <u>8.7.2.28(b)</u> and <u>8.7.2.28(f)</u>			
		2.29.	Identification of Equipment and Floors			
			sly present or required by OBC; or provided by an alteration			
		2.27.3	Firefighters' Emergency Operation - Automatic Elevators			
$\vdash$		2.21.3	2.27.3.1 Phase 1 Recall Operation			
			2.27.3.1 Phase 1 Recall Operation 2.27.3.2 Phase 1 Recall Operation by FAID's			
			· · · · · · · · · · · · · · · · · · ·			
$\vdash$			CAD 2.27.3.2.2 and CAD 2.27.3.2.4			
			2.27.3.3 Phase 2 Emergency In-Car Operation			
			2.27.3.4 Interruption of Power			
			2.27.3.5 Multicompartment Elevators			
			see 8.7.1.2 safety levels shall not be diminished			
		2.27.4	FEO: Non Automatic Elevators			
		2.27.5	FEO: Automatic Elevators with Designated-Attendant Operation			
		2.27.6	FEO: Inspection Operation			
		2.27.7	FEO: Operating Procedures			
		2.27.8	Switch Keys			
		2.27.9	Elevator Corridor Call Station Pictograph if required by OBC			
			as modified by <u>8.7.2.28(c)</u> thru <u>8.7.2.28(f)</u>			
		except,	/ <u></u> <u></u>			
			eviously present or required by OBC;			
		in Lo Nor pie	2.27.3.1 Provide Phase 1 Manual Recall Operation Only and			
$\vdash$			the level of activation shall not be diminished per 8.7.1.2.			
			the level of activation shall not be diffillished per 0.7.1.2.			

0	1	2a 2b	2c	3	4	5 6
0 5			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	Replacement with
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same Different
Conforms to B44 Mark with 'X'	Number		Part, Section or Requirement	Change		Make/Model
		Job Reference:			Type of Submiss	ion Required
	[ 8.7.2.27]★1	Relocation of	Elevator Controller (if control wiring disconnected - reconnected)	Major		
		2.8.2	Electrical Equipment and Wiring			
			Electrical testing to verify functionality of rewired equipment			
	8.7.2.27.4(d)	Installation of	Door Controller	Minor A	-	Minor B
			and test requirements, see 8.10.2.3.2(u)			
		8.7.2.12	Electrical Equipment and Wiring			
	0.7.0.07.4( )		0 + 11 + 5	1 di		M: D
	8.7.2.27.4(e)	Installation of	Controller for Emergency or Standby Power	Minor A	Minor A	Minor B
		8.7.2.28	Electrical Equipment and Wiring			
	9 7 2 27 4(a)	Installation of	Controller for EEO Operation	Minor A	Minor A	Minor B
	8.7.2.27.4(e)	Installation of 8.7.2.28	Controller for FEO Operation  Electrical Equipment and Wiring	Minor A	Minor A	IVIIIIOI B
		0.7.2.20	Electrical Equipment and Willing			
	8.7.2.27.5	Change in Type of Mo	otion Control - AC, VVVF, DC, SCR	Major	-	
			and test requirements, see 8.10.2.3.2(t)			
		(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>8.7.2.8</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			
		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, and Tracks			
		2.11.11.6	Bottom Guides			
		2.11.11.7 2.11.11.8	Multipanel Entrances			
			Hoistway Door Safety Retainers			
		2.11.11.10 2.11.12.8	Hoistway Door to Sill Clearance Pull Straps			
		(d) 2.12.(*)	H/W-Door Locking Devices, Elec. Contacts, H/W Access			
		(u) 2.12.( )	2.12.6 Hoistway Door Unlocking Devices			
			2.12.7 Hoistway Access Switches			
		(e) 2.13.	Power Operation of Hoistway Doors and Car Doors			
		(f) 2.14.(*)	Car: Enclosure, Doors, Gates, Illumination			
		(g)	2.14.1.7 car top railing or stowable type 8.7.2.14.5.2			
		(i) 2.16.8(*)	Capacity & Loading			
		(h) 2.17.(*)	Car & Cwt Safeties			
		2.18.(*)	Speed Governors			
		(j) 2.19.	Ascending Car Overspeed & Unintended Car Movement			
			Protection			
		(k) 2.25.	Terminal Stopping Devices			
		(I) 2.26.(*)	Operating Devices and Control Equipment			
		(n) 2.29.	Identification of Equipment and Floors			
			as modified by <u>8.7.2.28(c)</u> thru <u>8.7.2.28(f)</u>			
			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			
$\vdash$			2.27.3.4 Interruption of Power			
			2.27.3.5 Multicompartment Elevators			
			see <u>8.7.1.2</u> safety levels shall not be diminished 2.27.4 FEO: Non Automatic Elevators			
ш			L.LI.TI LO. INDITAULUITALIU LIEVALUIS			

0	1	2a	2b	2c	3	4	5	6
o 54				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
torm B44 k wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
ont lark	Number			Part, Section or Requirement	Change	7144111011	Gaine	Make/Model
ს ≥		Job Ref	ference:		-	Гуре of Submiss	ion Required	
				2.27.5 FEO: Automatic Elevators with Designated-Attendant				
1 1				Operation				
				2.27.6 FEO: Inspection Operation				
				2.27.7 FEO: Operating Procedures				
				2.27.8 Switch Keys				
				2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC				
		ο,	xcept,	2.27.3 Elevator Comaci Call Ctation 1 lotograph in roqu by CBC				
			•	eviously present or required by OBC; as a minimum				
			LO NOT pre	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.				
		Deix	o Donlooon	cent (is Dever Conversion Equipment)   See [9.7.2.9]+1				
		DIIV	ve Replacell	nent (ie Power Conversion Equipment) - See [8.7.2.8]★1				
	0.7.0.07.0	Changa in	Tune of On	eration Central CDDD ALITOMATIC	Major			
	8.7.2.27.6			eration Control - CPPB, AUTOMATIC	Major	-		
			•	and test requirements, see 8.10.2.3.2(t)				
$\sqcup \sqcup$		2.2(		Pits				
		2.3.		Counterweight Guarding				
Ш		<u>8.7.</u>		Vertical Car and Counterweight Clearances and Runbys				
			<u>.2.5</u>	8.7.2.5 Horizontal Car and Counterweight Clearances				
Ш		2.7.		Maintenance Path and Clearance				
L Ì		<u>8.7.</u>	.2.7.2					
ᆫᄀ		2.7.	.5	Working Areas Inside the Hoistway and in the Pit				
		2.7.	.6	Location of Machinery/Control Spaces/Rooms and Equipment				
		2.7.	.9	Lighting, Temperature, Humidity in Machinery/Control Spaces/Rooms				
		8.7.	.2.8	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2.1		Entrances and Emergency Doors Required				
		2.1		Types of Entrances				
		2.1		Closing of Hoistway Doors				
		2.1		Location of Horizontally Sliding or Swinging H/W Doors				
		2.1						
				Projection of Entrances & Equip. Beyond Land'g Sills				
		2.1		Opening of Hoistway Doors				
		2.1		Glass in Hoistway Doors				
		2.1		Weights for Closing or Balancing Doors				
		2.1		Hoistway Door Locking Devices & Power Operation				
			1.10	Landing Sill: Guards, Illumination, hinged sills, Tracks				
			1.11	Entrances, Horizontal Slide Type				
		2.11	1.12	Entrances, Vertical Slide Type				
		2.1	1.13	Entrances, Swing Type				
		2.12	2.	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
I		2.13	3.	Power Operation of Hoistway Doors and Car Doors				
I		2.14	4.(*)	Car: Enclosure, Doors, Gates, Illumination				
				2.14.1.7 car top railing or stowable type <u>8.7.2.14.5.2</u>				
$L^{----------$		2.16	6.	Capacity & Loading				
		2.17	7.	Car & Cwt Safeties				
		2.18	8.(*)	Speed Governors				
		2.19		ACO and UCM Protection				
		2.25		Terminal Stopping Devices				
			6.(*)	Operating Devices and Control Equipment				
		2.29		Identification of Equipment and Floors				
		2.27		Emergency Operation & Signaling Devices				
				2.27.1 Car Emergency Signalling Devices				
				2.27.2 Emergency or Standby Power systems				
				2.27.3 FEO: Automatic Elevators				
				CAD 2.27.3.2.2 and CAD 2.27.3.2.4				
$\vdash$				2.27.4 FEO: Non-Automatic Elevators				
$\vdash$								
igwdot				2.27.5 FEO: Automatic Elevators w/Attendant				
$\vdash \vdash \vdash$				2.27.6 FEO: Inspection Operation				
igspace				2.27.7 FEO: Operating Procedures				
igspace				2.27.8 Switch Keys				
ш				2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC				
	[8.7.2.27]★2			Patient Feature - Change in Operation Control	Minor B	Minor B		
igspace			3.5. <mark>2</mark>	- door time out				
, ,		2.2	7.3.1.6(I)	- shall not prevent PHI				

0	1	2a 2b	2c	3	4	5	6
o ×			Alteration Checklist for Director's Order 296 / 22	Alto	Type of Alter ration	ation Work	ement with
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Modification	iauon	Replace	Different
ntorm B44 rk wit	Reference		Scope of Alteration - B44 - 2019 Part, Section or Requirement	Change	Addition	Same	Make/Model
ငo Ma	Number	Job Reference:	rait, occion of requirement	,	Type of Submis	sion Required	
	[8 7 2 27]★3		ted Access - Security / Floor Lock Out	Minor B	Minor B	1	
	[0.7.2.27] ^ 0		) - shall not prevent floor access when on FEO	WIIIIOI D	WIIIIOI D		
		,	ain 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	★ Addition of Destina	ation Dispatch		Minor B		
	[0.1.12.1]	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	Removal of emergen	cy stop switch on passenger elevators	Minor B	_		
			and test requirements, see 8.10.2.3.2(t)				
			ated markings / engravings & provide an in-car stop switch to:				
		<b>★</b> 2.26.2.21	In-car stop switch				
		2.26.4.3	Positively Opened Contacts				
		<b>★</b> 2.26.9.3	Single failure does not render In-Car Stop Sw ineffective				
	8.7.2.27.8	Electrical Protective [				elow ↓	
	0.7.0.07.0		and test requirements, see 8.10.2.3.2(nn)	Madan	N.A!		N.A!
	8.7.2.27.8	Alteration of Addition	of an Electrical Protective Device	Major	Major	mrr	Major
		2.26.2	if device meets 2.26.4.3.2 (PES)  Electrical Protective Devices - for specified device				
	8.7.2.27.8	-	of an Electrical Protective Device	_	Minor A	r	nrr
	0.1.2.21.0	Alteration of Addition	if device meets 2.26.4.3.1	_	IVIII IOI A		11111
		2.26.2	Electrical Protective Devices - for specified device				
	8.7.2.27.9	Door Monitoring System	em			elow ↓	
		For inspection	and test requirements, see 8.10.2.3.2(oo)				
	8.7.2.27.9	Alteration or Addition	of a System to Monitor faulty door contract circuits	Minor A	Minor A		
		2.26.5	System to Monitor & Prevent Automatic Operation w/ Faulty Door				
			Contacts				
	0.7.0.00	Consumer of Operation	and Cimpolina Devices		П С П	elow ↓	
	<b>8.7.2.28</b> 8.7.2.28(a)	Car Emergency Signa	n and Signaling Devices	Minor B			nrr
	0.7.2.20(a)		and test requirements, see 8.10.2.3.2(pp)	IVIII IOI B	IVIII IOI D		nrr
		2.27.1	Car Emergency Signaling Devices				
		2.27.1	visual & audible signal permitted to be inside the car				
		8.7.2.8	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2.26.4.2	Listed/Certified Labeled/Marked				
		2.29.	Identification (for elevators in the same group)				
	8.7.2.28(b)	Emergency or Standb		Minor B	Minor A		
		•	and test requirements, see 8.10.2.3.2(I)				
		2.27.2	Emergency or Standby Power systems				
		<u>8.7.2.8</u>	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2.26.4.2 2.29.	Listed/Certified Labeled/Marked Identification (for elevators in the same group)				
		2.29.	identification (for elevators in the same group)				
	8.7.2.28(c)	Firefighter's Emergen	ncy Operation or Occupant Evacuation Operation	Minor B	Minor A		
	5.7.2.20(0)		and test requirements, see 8.10.2.3.2(m)	WILLION D	WILLION A		
		2.27.3	FEO: Automatic Elevators				
		2.27.4	FEO: Non-Automatic Elevators				
		2.27.5	FEO: Automatic Elevators w/Attendant				
		2.27.6	FEO: Inspection Operation				
		2.27.7	FEO: Operating Procedures				
		2.27.8	Switch Keys				
		2.27.11	Occupant Evacuation Operation				
		8.7.2.8	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2.26.4.2	Listed/Certified Labeled/Marked				
		2.29.	Identification (for elevators in the same group)				
	8 7 3 30(4)	Addition of Elevator to	a a Group, all alayators to most:		Minor A		
	8.7.2.28(d)		o a Group - all elevators to meet: and test requirements, see 8.10.2.3.2(m)	-	IVIIIIVI A		
		2.27.	Emergency Operation & Signaling Devices				
1			EINCLUCION ODELAUOLI & OLUHAIII IU DEVICES	-			

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ž Š	B44:19		ecklist for Director's Order 296 / 22 e also Guideline 296 / 22)	Alter	Type of Alteration	Replace	ement with
Conforms to B44 Mark with 'X'	Reference	•	e of Alteration - B44 - 2019	Modification	A 1 1'		Different
onto B ark	Number	-	t, Section or Requirement	Change	Addition	Same	Make/Mode
≥ ڏ	rtuii.boi	Job Reference:		Т	ype of Submiss	sion Required	i
		2.27.1 Car	Emergency Signalling Devices				
			rgency or Standby Power systems				
		2.27.3 FEO	: Automatic Elevators				
		CAD 2.27.3.	2.2 and CAD 2.27.3.2.3				
			: Non-Automatic Elevators				
			: Automatic Elevators w/Attendant				
			: Inspection Operation				
			: Operating Procedures				
		2.27.8 Swit					
		2.27.9 Elev	ator Corridor Call Station Pictograph if req'd by OBC				
	[8 7 2 28] <del>*</del> 1	★ Emera Recall Ungrade - from	Manual to Automatic matching code at time of install	Min	or B		
	[0.7.2.20] ^ 1		the to auto recall based on F.S. at time of install	IVIIII	oi D		
	[8.7.2.28]★2		ply with a Fire Code Retrofit Order	Minor B	Minor A		
	[0		: Automatic Elevators				
		CAD 3.20 Fire Code F	Retrofits				
	[8.7.3.]★	Alteration - Hydraulic to E	lectric Elevator				
	[8.7.3.]★1		ed in an existing hoistway and a new electric elevator	New			
			vators, except:				
			uilding conditions not in full conformance with				
			uirements may be retained. Identify each deviation in				
			sion (box 4000) ie.				
		- pit depth					
		- no pit drai	n				
		★ A New Insta	allation Number will be issued				
			length per 2.15.9 or				
			e / telescopic / folding design utilized				
		- collapsible	triciosopio / folding design danzed				
	8.7.3	Alterations to Hydraulic E	levators				
	8.7.3.1	Hoistway Enclosures			see 8.7	7.2.1	
		noistway Eliciosules					
	8.7.2.1	Hoistway Enclosures  Hoistway Enclosures		Major	Major		
	8.7.2.1 8.7.2.1.1	Hoistway Enclosures Hoistway Enclosure Walls		Major Major	Major Major		
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E		•			
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E 2.1.5 Windows a	nd Skylights	•			
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections	nd Skylights , Recesses, and Setbacks in H/W	•			
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal (	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances	•			
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings	•			
		Hoistway Enclosures Hoistway Enclosure Walls 2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc  * 2.7.3.4.7 Access Doc	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings	•			
		Hoistway Enclosures Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doo 2.8. Equipment	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces	•			
		Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doo 2.8. Equipment 8.7.2.10 Entrances at	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance)	•			
		Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doo 2.8. Equipment 8.7.2.10 Entrances at	nd Skylights , Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W)	•			
	8.7.2.1.1	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doo 2.7.3.4.7 Access Doo 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at	nd Skylights I, Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway	•	Major		
	8.7.2.1.1 8.7.2.1.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doo 2.7.3.4.7 Access Doo 2.8. Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5. Horizontal 0	nd Skylights I, Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway	•	Major		
	8.7.2.1.1	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8. Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5. Horizontal 0 Construction at Top of Hoistway	nd Skylights I, Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances	•	Major		
	8.7.2.1.1 8.7.2.1.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8. Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installat 2.5. Horizontal ( Construction at Top of Hoistway 2.1.2.1 Constructio	nd Skylights I, Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway	Major -	Major New		
	8.7.2.1.1 8.7.2.1.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5. Horizontal 0 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8. Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at 2.11.1 Entrances at 4.11.1 Entrances at 2.12.1 Horizontal 0 Construction at Top of Hoistway 2.1.2.1 Construction 2.1.3 Floor Over	nd Skylights I, Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways	Major -	Major New		
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5 Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Cal	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  & Cwt Clearances & Runbys	Major - Major	Major New Major		
	8.7.2.1.1 8.7.2.1.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5 Horizontal ( 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5 Horizontal ( Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Cat Construction at Bottom of Hoistway	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  & Cwt Clearances & Runbys  y	Major -	Major New		
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5 Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Cat Construction at Bottom of Hoistway 2.1.2.2 Constructio	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway	Major - Major	Major New Major		
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installa 2.5 Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Cat Construction at Bottom of Hoistway 2.1.2.2 Constructio 2.1.2.2 Constructio	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway	Major - Major	Major New Major		
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	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3 8.7.2.1.4	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows at 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.7.3.4.7 Access Doc 2.8 Equipment 8.7.2.10 Entrances at 2.11.1 Entrances at Addition of Elevator to Existing Ho B44-2019 New Installat 2.5 Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Cat Construction at Bottom of Hoistway 2.1.2.2 Constructio 2.1.2.3 Strength of 2.2. Pits	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway	- Major Major	Major New Major Major		
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	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3 8.7.2.1.4	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.8 Equipment 8.7.2.10 Entrances a 2.11.1 Entrances a Addition of Elevator to Existing Ho B44-2019 New Installa 2.5. Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Car Construction at Bottom of Hoistwa 2.1.2.2 Constructio 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Car Control of Smoke and Hot Gases	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway Pit Floor  Recesses, and Setbacks in H/W Rooms or Spaces Required (if blind H/W) istways Report of the Hoistway Report of the	- Major Major	Major New Major Major		
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3 8.7.2.1.4	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5 Horizontal C 2.7.3.4.6 Access Doc 2.8 Equipment 8.7.2.10 Entrances a 2.11.1 Entrances a Addition of Elevator to Existing Ho B44-2019 New Installa 2.5. Horizontal C Construction at Top of Hoistway 2.1.2.1 Constructio 2.1.3 Floor Over 8.7.2.4 Vertical Car Construction at Bottom of Hoistwa 2.1.2.2 Constructio 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Car Control of Smoke and Hot Gases	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway Pit Floor  Recesses, and Setbacks in H/W Rooms or Spaces Required (if blind H/W) istways Report of the Hoistway Report of the	- Major Major Major	Major New Major Major	Elevators	
	8.7.2.1.2 8.7.2.1.3 8.7.2.1.4 8.7.2.1.5	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5 Horizontal G 2.7.3.4.6 Access Dog 2.8 Equipment 8.7.2.10 Entrances an 2.11.1 Entrances an Addition of Elevator to Existing Ho B44-2019 New Installan 2.5 Horizontal G Construction at Top of Hoistway 2.1.2.1 Construction 2.1.3 Floor Over 8.7.2.4 Vertical Can Construction at Bottom of Hoistwan 2.1.2.2 Construction 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Can Control of Smoke and Hot Gases 2.1.4 Control of S	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways Re Cwt Clearances & Runbys y In at Bottom of the Hoistway Pit Floor  Required Reverses Runbys Reverses Reverses Runbys Reverses Reverses Runbys Reverses Runbys Reverses Runbys Reverses Rever	- Major Major Major	Major  New  Major  Major	Elevators	
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3 8.7.2.1.4 8.7.2.1.5 8.7.2.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc 2.8 Equipment 8.7.2.10 Entrances an 2.11.1 Entrances an Addition of Elevator to Existing Ho B44-2019 New Installant 2.5 Horizontal ( 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.2 Construction 2.1.2.2 Construction 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Can Control of Smoke and Hot Gases 2.1.4 Control of S  Pits Pits See other alterations below For inspection and test requirements  Pits See other alterations below For inspection and test requirements  Pits Pits See other alterations below For inspection and test requirements  Pits Pits See other alterations below For inspection and test requirements  Pits Pits Pits See other alterations below  Possible Pits Projection and test requirements  Pits Pits Pits Pits Projection and test requirements  Pits Pits Pits Pits Pits Pits Pits Pits	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways Re Cwt Clearances & Runbys y In at Bottom of the Hoistway Pit Floor  Required Reverses Runbys Reverses Reverses Runbys Reverses Reverses Runbys Reverses Runbys Reverses Runbys Reverses Rever	Major  Major  Major	Major  New  Major  Major	Elevators	
	8.7.2.1.2 8.7.2.1.3 8.7.2.1.4 8.7.2.1.5	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc 2.8 Equipment 8.7.2.10 Entrances an 2.11.1 Entrances an Addition of Elevator to Existing Ho B44-2019 New Installan 2.5. Horizontal ( 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.2 Construction 2.1.2.2 Construction 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Can Control of Smoke and Hot Gases 2.1.4 Control of S  Pits Pits Pits see other alterations below For inspection and test requirements  2.1.2 Construction of Pits  Pits Pits see other alterations below For inspection and test requirements  Alteration to Pits	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances  In at Top of the Hoistway Hoistways  Re Cwt Clearances & Runbys  y In at Bottom of the Hoistway Pit Floor  Required  Remain Carances & Runbys  Semoke and Hot Gases  For non Major Alterations	Major  Major  Major	Major  New  Major  Major	Elevators	
	8.7.2.1.1 8.7.2.1.2 8.7.2.1.3 8.7.2.1.4 8.7.2.1.5 8.7.2.2	Hoistway Enclosures  Hoistway Enclosure Walls  2.1.1 Hoistway E 2.1.5 Windows an 2.1.6 Projections 2.5. Horizontal ( 2.7.3.4.6 Access Doc 2.8 Equipment 8.7.2.10 Entrances an 2.11.1 Entrances an Addition of Elevator to Existing Ho B44-2019 New Installant 2.5 Horizontal ( 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.1 Construction 2.1.2.2 Construction 2.1.2.2 Construction 2.1.2.3 Strength of 2.2. Pits 8.7.2.4 Vertical Can Control of Smoke and Hot Gases 2.1.4 Control of S  Pits Pits See other alterations below For inspection and test requirements  Pits See other alterations below For inspection and test requirements  Pits Pits See other alterations below For inspection and test requirements  Pits Pits See other alterations below For inspection and test requirements  Pits Pits Pits See other alterations below  Possible Pits Projection and test requirements  Pits Pits Pits Pits Projection and test requirements  Pits Pits Pits Pits Pits Pits Pits Pits	nd Skylights Recesses, and Setbacks in H/W Car and Counterweight Clearances ors and Openings ors and Openings in Hoistways, Machine or Control / Rooms or Spaces and Hoistway Openings (if change includes an entrance) and Emergency Doors Required (if blind H/W) istway ation Car and Counterweight Clearances in at Top of the Hoistway Hoistways A Cwt Clearances & Runbys y in at Bottom of the Hoistway Pit Floor  A Cwt Clearances & Runbys  Smoke and Hot Gases  for non Major Alterations uirements, see 8.10.3.3.2(u)	Major  Major  Major	Major  New  Major  Major	Elevators	

0	1	2a 2b	2c	3	1	5	6
		Za ZD	Alteration Checklist for Director's Order 296 / 22	3	Type of Altera	ation Work	0
o to	B44:19		(see also Guideline 296 / 22)	Alte	ration		cement with
forms B44 k with	Reference		Scope of Alteration - B44 - 2019	Modification	A .d .dist:	0	Different
Conforms to B44 Mark with 'X'	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ວັ ≌ີ	Number	Job Reference:			Type of Submiss	sion Require	d
		8.7.2.4	Vertical Car & Cwt Clearances & Runbys		,,		
	8.7.2.1.2	Pit Drains & Sumps	Vertical Car & Cwt Clearances & Numbys	Minor B	Minor B		
	0.7.2.1.2	2.2.2.	Pit Drains	WIIIIOI D	WIIIIOI D		
	0.7.0.4.0		Pil Diains	Minne	N 45 A		
	8.7.2.1.2	Pit Guards	Overalla Datassan Adianant Dita	Minor B	Minor A		
	0.7.0.4.0	2.2.3	Guards Between Adjacent Pits	M. B			
	8.7.2.1.2	Pit Access		Minor B	Minor A		
		2.2.4	Pit Access				
	8.7.2.1.2	Pit Illumination		Minor B	Minor B		
		2.2.5	Illumination of Pits				
	8.7.2.1.2	Pit Stop Switches		Minor B	Minor A		
		2.2.6	Stop Switches				
	8.7.2.1.2	Pit Depth		Minor B	Minor A		
		2.2.7	Minimum Pit Depths Required				
	8.7.2.1.2	Access to Underside	·	Minor B	Minor A		
		2.2.8	Access to Underside of Car				
	8.7.2.2.2	Addition of surface-me		_	Minor B		
	J. 1 . L. L. L	3.4.1	bottom clearances maintained		ioi D		
		0.4.1	not restrict pit access				
		2224					
		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				
	8.7.3.3	Location and Guardin		Major	Major		
		•	and test requirements, see 8.10.3.3.2(b)				
		2.3.	Location and Guarding of Counterweights				
		2.5.1.2	Between Car & Cwt and Cwt Guard				
		3.5.	Horizontal car and Counterweight Clearances				
	8.7.3.4	Vertical Car and Cour	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				
		<u>8.7.3.22.2</u>	Increase in Rated Speed				
		<u>8.7.3.23.5</u>	Change in Location of Hydraulic Jack				
	8.7.3.5		ounterweight Clearances (no reduction allowed)	Major	-		
			and test requirements, see 8.10.3.3.2(w)				
		2.5.	Horizontal Car and Counterweight Clearances				
		<u>8.7.3.22.1</u>	Increase or Decrease in Rise				
		<u>8.7.3.22.2</u>	Increase in Rated Speed				
		<u>8.7.3.23.5</u>	Change in Location of Hydraulic Jack				
	8.7.3.6	Protection of Spaces	Below Hoistways	Minor B	Major		
		For inspection	and test requirements, see 8.10.3.3.2(x)				
		3.6.	Protection of Spaces below Hoistway				
	8.7.3.7	Machine Rooms and I			see 8.7	7.2.7	
	8.7.2.7	Machine Rooms and I	• •			elow $ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
			and test requirements, see 8.10.2.3.2(bb)				
	8.7.2.7.1		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		
		(			ajoi		
$\vdash \vdash$		07 (007)	AW 1 M 11 O M 11 D O M 12	N.4:			
		2.7. (& 3.7.)	Altered- Machinery Spaces, Machine Rooms Control Spaces & Control	Minor A	-		
			Rooms				
		OESC	Electrical Equipment Clearances	Minor B	-		
	8.7.2.7.2	Means of Access		Minor B	-		
	_	2.7.3.1	General Requirements				
		2.7.3.2	Access Across Roofs				
		2.7.3.3	Means of Access				
	8.7.2.7.3			Minor B	Minor B		mrr
	0.1.2.1.3	Access Doors and Op		IVIIIIUI D	IVIII IUI D		11111
		2.7.3.4	Access Doors and Openings				
		2.7.3.5	Stop Switch for Machinery Space or Control Spaces				
	8.7.2.7.4	Headroom (no reduction		Minor B	Minor B		
		2.7.4	Headroom in Machine Rooms/Spaces, Control Room/Spaces				
	8.7.2.7.5	Windows and Skyligh		Minor B	Minor B		
		2.1.5	Windows and Skylights				
	8.7.2.7.6	Lighting (no reduction)		Minor B	Minor A		
		2.7.9.1	Lighting				

0	1	2a 2b	2c	3	4	5	6
			Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X	B44:19	(	see also Guideline 296 / 22)	Alter	ation	Replace	ment with
rorm B44 k wit	Reference	So	cope of Alteration - B44 - 2019	Modification	Addition	Same	Different
omt ark	Number	P	Part, Section or Requirement	Change	Addition	Oanic	Make/Model
ວ ≥		Job Reference:		Т	ype of Submiss	ion Required	
	8.7.2.7.7	Ventilation		Minor B	Minor B		
	0.1.12.1.1.		ture & Humidity				
		pora	and a mannany				
	[8727] <del>*</del> 1	Addition of Elevator Equipment	Guarding	Minor A	Minor A	mrr	mrr
	[0.7.2.7] × 1		nce Path and Clearance	WIII IOI 7 C	WIIIIOI 71		
		• •	doors and openings in cage style enclosures (750x2030)				
		(b) 2.7.5.4.2 GIZE 61 C	adors and openings in eage style enclosures (150x2000)				
		(c) 2.10.1 Guarding	of Equipment				
		( )	g of Equipment				
			e/removable only with tools				
		• •	n/work instruction for accessing equipment				
		• •	es in front of electrical control equipment (1000mm)				
			earance required at time of original control installation				
			n front of / space to operate main disconnect (1000mm),				
			50mm) if permitted at time of original installation				
		(h) Installation	on by registered contractor				
		(i) designed	to be handled by one person				
	8.7.3.8	Electrical Wiring, Pipes, and Du	cts in Hoistways and Machine Rooms	Minor B	Minor B	mrr	Minor B
	8.7.3.9	Machinery and Sheave Beams,		Major	Major		
			neave Beams, Supports, Foundation				
			ry & Sheave Beams, Supports, Foundation				
		Building reactions increased by					
			ry & Sheave Beams, Supports, Foundation				
			y of building structure verified by P.Eng.				
	8.7.3.10	Hoistway Entrances and Openir			see <u>8.7</u>	2 10	
	8.7.2.10	Entrances and Hoistway Openir		Major			holow
			igs		Major	300	below
	8.7.2.10.1	General Requirements		Major	-		
	0 = 0 40 44 )		equirements, see 8.10.2.3.2(o)				
	8.7.2.10.1(a)	General Requirements - All New		Major	-	Major	Major
			n of H/W Openings				
			or Locking Devices, Elec. Contacts, H/W Access				
			peration of Hoistway Doors and Car Doors				
		2.14.5.7 Restricte	d Opening of Car Doors (Interlock or Restrictor)				
		2.29.2 Identifica	tion of Floors				
	8.7.2.10.1(b)	General Requirements - New Er	ntrances w/Existing Entrances	-	Major		
		2.11.2 Types of	Entrances				
		2.11.3 Closing of	of Hoistway Doors				
		2.11.4 Location	of Horizontally Sliding or Swinging H/W Doors				
		2.11.5 Projectio	n of Entrances & Equip. Beyond Land'g Sills				
			of Hoistway Doors				
			Hoistway Doors				
			for Closing or Balancing Doors				
			of Entrance Assemblies				
		Entire installation to mee					
			of Hoistway Doors				
			or Locking Devices, Elec. Contacts, H/W Access				
			peration of Hoistway Doors and Car Doors				
			d Opening of Car Doors (Interlock or Restrictor)				
			tion of Floors				
	9 7 2 10 1(a)			Major			
	8.7.2.10.1(c)	General Requirements - Alterati		Major	-		
			of Fotograph & Fouris Bound Landle Cills				
			n of Entrances & Equip. Beyond Land'g Sills				
			Hoistway Doors				
			for Closing or Balancing Doors				
			of Entrance Assemblies				
		Entire installation to mee					
			or Locking Devices, Elec. Contacts, H/W Access				
			peration of Hoistway Doors and Car Doors				
			d Opening of Car Doors (Interlock or Restrictor)				
		2.29.2 Identifica	tion of Floors				
	8.7.2.10.1(d)	General Requirements - Emerge	ency Doors (added or altered)	Major	Major		
			s and Emergency Doors Required				
			of Entrance Assemblies				
	8.7.2.10.1(e)	General Requirements - Access		Major	Major		
	,		Opening for Cleaning of Car & H/W Enclosure	,	,		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,				

8.7.2.10.2 Horizontal Side-Type Entrance Assemblies For inspection and test requirements, see 8.10.2.3.2(a) 8.7.2.10.2 Horizontal Side-Type Entrances - new entrance and components to meet: For inspection and test requirements, see 8.10.2.3.2(a) 8.7.2.10.1 Entrances - New Openings - General Regints Linital Entrances - Horizontal Side-Type Installed New components to meet  - Installed New components to meet - Installed New Components to meet - Linital Landing-Sill Guards - Linital Landing-Sill-Guards-Sasamblies - Linital Landing-Sil	Reference Number    B44:19   Reference Number   Scope of Alteration B44 - 2019   Part, Section or Requirement	Type of A  Alteration  Modification Change  Type of Substitute  Major  Major  Major	Replacement with  Same  Different Make/Model mission Required
S.7.2.10.2   Horizontal Side-Type Entrances - new entrance and components to meet: For impedicing and lest requirements, see 8-10.2.3.2(c)   Horizontal Side-Type Entrances - new entrance and components to meet: For impedicing and lest requirements, see 8-10.2.3.2(c)   Major Major see below For impedicing and lest requirements, see 8-10.2.3.2(c)   Major Major Side Type Installed New components to meet: Major Major Side Type Installed New Components to meet: Major Major Side Type Installed New Components to meet: Major Major Side Type Installed New Components to meet: Major Major Side Type Installed New Components to meet: Major Major Side Type Installed New Components to meet: Major Major Side Type Side Side Side Side Side Side Side Sid	S.7.2.10.5   Marking of Entrance Assemblies	Modification Change Type of Substitute Major Major	Same Different Make/Model
S.7.2.10.2   S.7.2.10.5   Marking of Entrance Assemblies	S.7.2.10.5   Marking of Entrance Assemblies	Change Type of Subi	Same Make/Model mission Required
S.7.2.10.2   S.7.2.10.5   Marking of Entrance Assemblies	S.7.2.10.5   Marking of Entrance Assemblies	Type of Substance  to meet: Major Major	mission Required
S.7.2.10.2   Horizontal Silide-Type Entrances - new entrance and components to meet:	S.7.2.10.2   Horizontal Slide-Type Entrances - new entrance and components   For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1   Entrances & H/W Openings - General Req   2.11.11   Entrances, Horizontal Slide Type   Installed New components to meet:	to meet: Major Major	
8.7.2.10.2   Horizontal Silde-Type Entrances - new entrance and components to meet:	8.7.2.10.2  Horizontal Slide-Type Entrances - new entrance and components  For inspection and test requirements, see 8.10.2.3.2(o)  8.7.2.10.1  Entrances & H/W Openings - General Req' 2.11.11  Entrances, Horizontal Slide Type Installed New components to meet:  sills (a)  2.11.10.1  Landing-Sill Guards 2.11.11.1  Entrance Frames  2.11.11.2  Hanger Tracks, and Track Supports  frame (c)  2.11.11.3  Entrance Frames  2.11.11.5.1  Panel Overlap 2.11.11.5.2  Panel Gaps Clearances 2.11.11.5.3  Pockets in Strike Jamb  8.7.2.10.5  Marking of Entrance Assemblies  hangers (d) panels (e)  2.11.11.6  Bottom Guides 2.11.11.7  Multipanel Entrances 8.7.2.10.5  Marking of Entrance Assemblies  retainers (f)  8.7.2.10.3  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1  Entrances, Vertical Slide Type Installed New components to meet:  sills (a)  2.11.10.3  Hinged Hoistway Landing Sills 2.11.11.1  Landing Sills  frames (b)  2.11.11.2  Entrances Frames 8.7.2.10.5  Marking of Entrance Assemblies  rails (c) panels (d)  2.11.12.3  Rails 2.11.12.3  Rails 2.11.12.4  Panels 2.11.12.5  Guides		see below
8.7.2.10.2   Horizontal Silde-Type Entrances - new entrance and components to meet:	8.7.2.10.2  Horizontal Slide-Type Entrances - new entrance and components  For inspection and test requirements, see 8.10.2.3.2(o)  8.7.2.10.1  Entrances & H/W Openings - General Req' 2.11.11  Entrances, Horizontal Slide Type Installed New components to meet:  sills (a)  2.11.10.1  Landing-Sill Guards 2.11.11.1  Entrance Frames  2.11.11.2  Hanger Tracks, and Track Supports  frame (c)  2.11.11.3  Entrance Frames  2.11.11.5.1  Panel Overlap 2.11.11.5.2  Panel Gaps Clearances 2.11.11.5.3  Pockets in Strike Jamb  8.7.2.10.5  Marking of Entrance Assemblies  hangers (d) panels (e)  2.11.11.6  Bottom Guides 2.11.11.7  Multipanel Entrances 8.7.2.10.5  Marking of Entrance Assemblies  retainers (f)  8.7.2.10.3  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1  Entrances, Vertical Slide Type Installed New components to meet:  sills (a)  2.11.10.3  Hinged Hoistway Landing Sills 2.11.11.1  Landing Sills  frames (b)  2.11.11.2  Entrances Frames 8.7.2.10.5  Marking of Entrance Assemblies  rails (c) panels (d)  2.11.12.3  Rails 2.11.12.3  Rails 2.11.12.4  Panels 2.11.12.5  Guides		see below
For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.0.1 Entrances & HVW Openings - General Reqmits 2.11.11 Entrances, Horzontal Sitle Type installed New components to meet: 2.11.10.1 Landing-Sitl Guard's 2.11.11.1 Landing Sitle 2.11.11.1 Landing Sitle 2.11.11.1 Landing Sitle 2.11.11.2 Hanger Track, and Track Supports.  Minor B Minor B Minor B  Minor B Minor B  Minor B Minor B  Minor B Minor B  1.11.13.2 Parel Caps Clearances 2.11.11.5 Parel Coverage 2.11.11.5 Parel Caps Clearances 2.11.11.5 Parel Coverage 2.11.11.6 Bottom Guides 3.7.2.10.3 Marking of Entrance Assemblies 3.7.2.10.3 Marking of Entrance Assemblies 3.7.2.10.3 Marking of Entrance Assemblies 3.7.2.10.3 Vertical Side Type Entrances - new entrance and components to meet.  For inspection and test requirements, see & Fol.0.2.2(o) 8.7.2.10.1 Entrances - new entrance and components to meet.  For inspection and test requirements, see & Fol.0.2.2(o) 8.7.2.10.1 Entrances - new entrance and components to meet.  Interaction of the Coverage Parel Caps Parel Regimes 3.7.2.10.3 Marking of Entrance Assemblies 3.7.2.10.4 Marking of Entrance Assemblies 3.7.2.10.5 Marking of Entrance Assemblies 3.7.2.10	For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1		see below
For inspection and leaf requirements, see 8.10.2.3.2(a)   8.7.2.0.1	For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1		000 501011
B	B.7.2.10.1   Entrances & H/W Openings - General Req   2.11.11   Entrances, Horizontal Slide Type   Installed New components to meet:   2.11.10.1   Landing-Sill Guards   2.11.11.1   Entrances, Horizontal Slide Type   2.11.11.1   Entrances   Entr	mts	
2.11.11 Landing-Bill Guards 2.11.10.1 Landing-Bill Guards 2.11.10.1 Landing-Bill Guards 2.11.10.1 Landing-Bill Guards 2.11.10.1 Landing-Bill Guards 2.11.11.1 Landing-Bill Guards 2.11.11.1 Landing-Bill Guards 2.11.11.2 Landing-Bill Guards 2.11.11.3 Entrance Frames Minor B Minor B Minor B Minor B Minor B Minor B Minor A Minor B Minor A Minor A Minor A Minor B Minor B Minor B Minor A Minor B Minor	2.11.11		Major
Installed New components to meet	Installed New components to meet:   sills (a)   2.11.10.1		Wajor
Selection   Sele	Sills (a)   2.11.10.1   Landing-Sill Guards   2.11.11.1   Landing Sills   2.11.11.1   Landing Sills   2.11.11.1   Entrance Frames   2.11.11.2   Hanger Tracks, and Track Supports   Frame (c)   2.11.11.3   Entrance Frames   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   Marking of Entrance Assemblies   2.11.11.6   Bottom Guides   2.11.11.6   Bottom Guides   2.11.11.6   Bottom Guides   2.11.11.8   Hoistway Door Safety Retainers   S.7.2.10.5   Marking of Entrance Assemblies   Marking of Entrance Assemblies   2.11.11.8   Hoistway Door Safety Retainers   Vertical-Slide-Type Entrances - new entrance and components to   For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1   Entrances, Vertical Slide Type   Installed New components to meet:   Sills (a)   2.11.10.3   Hinged Hoistway Landing Sills   2.11.12.1   Landing Sills   2.11.12.2   Entrances Frames   8.7.2.10.5   Marking of Entrance Assemblies   Tails (c)   2.11.12.3   Rails   2.11.12.4   Panels   2.11.12.5   Guides   Guides   Candidades		
		Minor R	Minor B
2.11.11.6   Bottom Guides   Amore A   Amore		WIIIOI B	MILIOLD
hanger Mack (b)	hanger /track (b)		
frame (c)	frame (c)  2.11.11.3 Entrance Frames 2.11.11.5.1 Panel Overlap 2.11.11.5.2 Panel Gaps Clearances 2.11.11.5.3 Pockets in Strike Jamb 8.7.2.10.5 Marking of Entrance Assemblies hangers (d) 2.11.11.4 Hangers panels (e)  2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies retainers (f) 2.11.11.8 Hoistway Door Safety Retainers  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Requirements 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides	Minor	Min an D
2.11.11.5.1   Panel Overlap   2.11.11.5.2   Panel Gaps Clearances   2.11.11.5.2   Panels Gaps Clearances   2.11.11.5.2   Panels   Rangers (d)   2.11.11.5   Panels   Rangers (d)   2.11.11.5   Panels (e)   2.11.11.6   Bottom Guides   2.11.11.7   Panels (e)   2.11.11.6   Bottom Guides   2.11.11.7   Panels (e)   2.11.11.6   Bottom Guides   2.11.11.7   Panels (e)   2.11.11.8   Panels (e)   2.11.11.8   Panels (e)   P	2.11.11.5.1 Panel Overlap 2.11.11.5.2 Panel Gaps Clearances 2.11.11.5.3 Pockets in Strike Jamb 8.7.2.10.5 Marking of Entrance Assemblies  hangers (d) panels (e)  2.11.11.4 Hangers 2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies  retainers (f)  8.7.2.10.3 Wertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Requirements in the strength of the stren		
2.11.11.5.2   Panel Gaps Clearances   2.11.11.5.3   Potests in Strike Jamb   8.7.2.10.5   Marking of Entrance Assemblies   Minor B.   Minor B.   Minor B.   Minor B.   Minor B.   Minor B.   Minor A.   Minor B.   Minor B.   Minor B.   2.11.11.6   Bottom Guides   2.11.11.6   Multipanel Entrances Samphlies   Minor B.   Minor A.   Minor B.	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	Minor A	Minor A
2.11.11.5.3   Pockets in Strike Jamb   Record	2.11.11.5.3   Pockets in Strike Jamb   8.7.2.10.5   Marking of Entrance Assemblies		
hangen (d)	B.7.2.10.5   Marking of Entrance Assemblies		
hangars (d)	hangers (d) panels (e)  2.11.11.4 Hangers panels (e)  2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies retainers (f)  8.7.2.10.3 Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Req' 2.11.12 Entrances, Vertical Slide Type Installed New components to meet: sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides		
panels (e)   2.11.11.6   Commonwealth   Commonwea	panels (e)  2.11.11.5(*) Panels 2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies  retainers (f) 2.11.11.8 Hoistway Door Safety Retainers  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Requirements and test requirements are general Requirements. 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies  rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides		
panels (e)   2:11.115   Panels   2:11.116   Bottom Guides   2:11.117   Multipanel Entrances   3:72.10.5   Marking of Entrance Assemblies   Minor B   Minor A   Minor B	panels (e)  2.11.11.5(*) Panels 2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies  retainers (f) 2.11.11.8 Hoistway Door Safety Retainers  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Req' 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies  rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides	Minor B	Minor B
2.11.11.6   Bottom Guides   2.11.11.7   Willipanel Entrance S   3.7.2.10.5   Marking of Entrance Assemblies   8.7.2.10.3   Vertical-Side-Type Entrances - new entrance and components to meet:   For inspection and test requirements, see 8.10.2.3.2(o)   S.7.2.10.1   Entrances & Monor B   Major	2.11.11.6 Bottom Guides 2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies  retainers (f) 2.11.11.8 Hoistway Door Safety Retainers  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Req' 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies  rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides	Minor A	Minor A
2.11.11.7	2.11.11.7 Multipanel Entrances 8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.3 Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o) 8.7.2.10.1 Entrances & H/W Openings - General Req' 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies  rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides		
Retainers (f)	8.7.2.10.5 Marking of Entrance Assemblies  retainers (f) 2.11.11.8 Hoistway Door Safety Retainers  Vertical-Slide-Type Entrances - new entrance and components to  For inspection and test requirements, see 8.10.2.3.2(o)  8.7.2.10.1 Entrances & H/W Openings - General Req'  2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills  2.11.12.1 Landing Sills  frames (b) 2.11.12.2 Entrances Frames  8.7.2.10.5 Marking of Entrance Assemblies  rails (c) 2.11.12.3 Rails  panels (d) 2.11.12.3 Rails  2.11.12.4 Panels  2.11.12.5 Guides		
Realisers (f)	retainers (f)  8.7.2.10.3  Vertical-Slide-Type Entrances - new entrance and components to For inspection and test requirements, see 8.10.2.3.2(o)  8.7.2.10.1  Entrances & H/W Openings - General Req' 2.11.12  Entrances, Vertical Slide Type Installed New components to meet:  sills (a)  2.11.10.3  Hinged Hoistway Landing Sills 2.11.12.1  Landing Sills  frames (b)  2.11.12.2  Entrances Frames  8.7.2.10.5  Marking of Entrance Assemblies  rails (c) panels (d)  2.11.12.3  Rails 2.11.12.4  Panels 2.11.12.5  Guides		
8.7.2.10.3   Vertical-Silde-Type Entrances - new entrance and components to meet:	8.7.2.10.3  Vertical-Slide-Type Entrances - new entrance and components to  For inspection and test requirements, see 8.10.2.3.2(o)  8.7.2.10.1 Entrances & H/W Openings - General Req' 2.11.12 Entrances, Vertical Slide Type Installed New components to meet:  sills (a) 2.11.10.3 Hinged Hoistway Landing Sills 2.11.12.1 Landing Sills frames (b) 2.11.12.2 Entrances Frames 8.7.2.10.5 Marking of Entrance Assemblies rails (c) panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides	Minor B	Minor B
For inspection and test requirements, see 8.10.2.3.2(a)   8.7.2.10.1   Entrances & HVW Openings - General Req'mts     2.11.12   Entrances, Vertical Silde Type     Installed New components to meet:     sills (a)   2.11.12.1   Landing Sills   Minor B   Minor B     1.11.2.1   Landing Sills   Minor B   Minor B     1.12.1   Landing Sills   Minor B   Minor B     1.12.1   Landing Sills   Minor B     1.12.1   Minor B   Minor B     1.12.1   Minor A   Minor A     1.12.2   Panels     2.11.12.4   Panels     2.11.12.5   Guides     2.11.12.6   Guides     2.11.12.6   Countenvelghting or Counterbalancing     2.11.12.8   Pull Straps     3.72.10.5   Marking of Entrance Assemblies     1.11.2   Minor B     3.72.10.1   Swing-Type Entrances - new entrance and components to meet     4.11.12.8   Pull Straps     3.72.10.1   Entrances & H/W Openings - General Req'mts     2.11.1.1   Entrances & H/W Openings - General Req'mts     2.11.1.1   Landing-Sills Guards     3.72.10.1   Entrances & H/W Openings - General Req'mts     2.11.1.1   Landing-Sills Guards     3.72.10.1   Entrances & H/W Openings - General Req'mts     2.11.1.1   Landing-Sills Guards     3.72.10.1   Entrances & H/W Openings - General Req'mts     3.72.10.1   Entrances & H/W Openings - General Req'mts     4.72.10.2   Minor B   Minor B     5.72.10.3   Minor B   Minor B     6.72.10.4   Minor B     6.72.10.5   Marking of Entrance Assemblies     6.72.10.5   Marking of Entrance Assemblies     8.72.10.5   Marking of Entrance Ass	For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1		
B.7.2.10.1	8.7.2.10.1   Entrances & H/W Openings - General Requestriances	iviajoi iviajoi	see below
2.11.12   Entrances, Vertical Silide Type   Installed New components to meet:	2.11.12	webs.	Maian
Installed New components to meet:   Sills (a)   2.11.10.3   Hinged Hoistway Landing Sills   Minor B   Minor B	Installed New components to meet:   sills (a)	ints	iviajoi
Sills (a)   2.11.10.3   Hinged Hoistway Landing Sills   2.11.12.1   Landing Sills   2.11.12.1   Landing Sills   Minor B   Minor A   Minor B   Mi	Sills (a)   2.11.10.3   Hinged Hoistway Landing Sills   2.11.12.1   Landing Sills		
Calif. 12.2   Entrances Frames   Minor B   Minor B	2.11.12.1		
Traines (b)   2.11.12.2   Entrances Frames   Minor B   Minor B	frames (b)  2.11.12.2 Entrances Frames  8.7.2.10.5 Marking of Entrance Assemblies  rails (c)  2.11.12.3 Rails  panels (d)  2.11.12.4 Panels  2.11.12.5 Guides	Minor B	Minor B
Rails (c)   2.11.12.3   Rails   Minor A   Minor A   Minor A	8.7.2.10.5 Marking of Entrance Assemblies rails (c) 2.11.12.3 Rails panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides		
Trails (c)   2.11.12.3   Rails   Minor A   M	rails (c) 2.11.12.3 Rails panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides	Minor B	Minor B
panels (d)   2.11.12.3   Rails   2.11.12.4   Panels   2.11.12.5   Guides   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.6   Pull Straps   Pull Straps   2.11.12.5   Guides   2.11.12.5   Guides   Pull Straps   Pu	panels (d) 2.11.12.3 Rails 2.11.12.4 Panels 2.11.12.5 Guides		
2.11.12.4   Panels   2.11.12.5   Guides   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.8   Pull Straps   3.72.10.5   Marking of Entrance Assemblies   guides (e)   2.11.12.5   Guides   sill guard (f)   2.11.12.7   Sill Guards   mrr   mrr   mrr   mrr   straps (g)   2.11.12.8   Pull Straps   Pull	2.11.12.4 Panels 2.11.12.5 Guides	mrr	mrr
2.11.12.5   Guides   2.11.12.6   Counterweighting or Counterbalancing   2.11.12.8   Pull Straps   8.7.2.10.5   Marking of Entrance Assemblies   guides (e)   2.11.12.5   Guides	2.11.12.5 Guides	Minor A	Minor A
2.11.12.6   Counterweighting or Counterbalancing   2.11.12.8   Pull Straps   8.7.2.10.5   Marking of Entrance Assemblies			
2.11.12.8	2.11.12.6 Counterweighting or Counterbalancing		
2.11.12.8			
Straps (g)			
guides (e)   2.11.12.5   Guides     sill guard (f)   2.11.12.7   Sill Guards     straps (g)   2.11.12.8   Pull Straps     3.7.2.10.4   Swing-Type Entrances - new entrance and components to meet:   Major Major     For inspection and test requirements, see 8.10.2.3.2(o)     8.7.2.10.1   Entrances & H/W Openings - General Req'mts     2.11.13   Entrances, Swing Type     Installed New components to meet:     sills (a)   2.11.10.1   Landing-Sill Guards     2.11.10.3   Hinged Hoistway Landing Sills     2.11.13.1   Landing Sills     1.11.34   Hinges     8.7.2.10.5   Marking of Entrance Assemblies     panels (c)   2.11.13.3   Panels     2.11.13.4   Hinges     3.7.2.10.5   Marking of Entrance Assemblies     Minor B     Minor			
Sill guard (f)   2.11.12.7   Sill Guards   mrr   mrr   mrr			
Straps (g)   2.11.12.8		mrr	mrr
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) 8.7.2.10.1 Entrances & H/W Openings - General Req'mts 2.11.13 Entrances, Swing Type Installed New components to meet:  sills (a) 2.11.10.1 Landing-Sill Guards 2.11.10.3 Hinged Hoistway Landing Sills 2.11.13.1 Landing Sills frames (b) 2.11.13.2 Entrance Frames 2.11.13.4 Hinges 8.7.2.10.5 Marking of Entrance Assemblies  panels (c) 2.11.13.3 Panels 2.11.13.4 Hinges 2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  hinges (d) 8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  Minor B			11111
For inspection and test requirements, see 8.10.2.3.2(o)   8.7.2.10.1		Major Major	and holow
B.7.2.10.1   Entrances & H/W Openings - General Req'mts   2.11.13   Entrances, Swing Type   Installed New components to meet:		iviajoi iviajoi	see below
2.11.13		mte	Major
Installed New components to meet:   sills (a)   2.11.10.1		IIIIO	Major
Sills (a)   2.11.10.1   Landing-Sill Guards   Minor B   Minor B	, 5 ,1		
2.11.10.3 Hinged Hoistway Landing Sills 2.11.13.1 Landing Sills  frames (b)  2.11.13.2 Entrance Frames  Minor B			
2.11.13.1 Landing Sills  frames (b) 2.11.13.2 Entrance Frames  2.11.13.4 Hinges  8.7.2.10.5 Marking of Entrance Assemblies  panels (c) 2.11.13.3 Panels  2.11.13.4 Hinges  2.11.13.5 Marking  8.7.2.10.5 Marking of Entrance Assemblies  hinges (d) 2.11.13.4 Hinges  2.11.13.5 Marking of Entrance Assemblies  Minor B Minor B  Minor B  Minor B  Minor B  Minor B  Minor B  Minor B  S.7.2.10.5 Marking of Entrance Assemblies  panels (c) 2.11.13.4 Hinges  8.7.2.10.5 Marking of Entrance Assemblies  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		Minor B	Minor B
frames (b)   2.11.13.2   Entrance Frames   Minor B   Minor B	,		
2.11.13.4 Hinges 8.7.2.10.5 Marking of Entrance Assemblies  panels (c)  2.11.13.3 Panels  2.11.13.4 Hinges 2.11.13.4 Hinges 2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  hinges (d)  8.7.2.10.5 Marking of Entrance Assemblies  Minor B  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			
8.7.2.10.5 Marking of Entrance Assemblies  panels (c)  2.11.13.3 Panels  2.11.13.4 Hinges  2.11.13.5 Marking  8.7.2.10.5 Marking of Entrance Assemblies  hinges (d)  2.11.13.4 Hinges  Marking of Entrance Assemblies  Marking of Entrance Assemblies  Marking of Entrance Assemblies  Marking of Entrance Assemblies  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		Minor B	Minor B
panels (c)  2.11.13.3 Panels  2.11.13.4 Hinges  2.11.13.5 Marking  8.7.2.10.5 Marking of Entrance Assemblies  hinges (d)  8.7.2.10.5 Marking of Entrance Assemblies  And the production 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  Minor B	2.11.13.4 Hinges		
2.11.13.4 Hinges 2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies hinges (d) 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	8.7.2.10.5 Marking of Entrance Assemblies		
2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  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	panels (c) 2.11.13.3 Panels	Minor B	Minor B
2.11.13.5 Marking 8.7.2.10.5 Marking of Entrance Assemblies  8.7.2.10.5 Marking of Entrance Assemblies  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	2.11.13.4 Hinges		
8.7.2.10.5 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 Service To a Floor Bolt entrances shut			
hinges (d)  2.11.13.4 Hinges  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			
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		mrr	mrr
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	- · · ·		
8.7.2.10.5(a) labeled per NBCC requirements  ★ Removing Service To a Floor Bolt entrances shut			
[8.7.2.10]★1 ★ Removing Service To a Floor Minor B  Bolt entrances shut		g chiralice	
Bolt entrances shut		141 5	
		Minor B	
Remove Interlock From Setely String			
	Remove Interlock From Safety String		
Remove COP Floor Button	Remove COP Floor Button		

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0	1	2a 2b	2c	3	Type of Altera	ation Work	0
ž ž	B44:19		Alteration Checklist for Director's Order 296 / 22	Alte	ration		ement with
forms to B44 k with 'X	D44.19		(see also Guideline 296 / 22)				7
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X	Number		Part, Section or Requirement				
<u> </u>		Job Reference:		-	Γype of Submiss	ion Require	d
		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 Retain	ners	Minor B	Minor A	mrr	Minor B
		2.11.11.8	Hoistway Door Safety Retainers				
		2.11.11.0	Troidinay Book Galoty Rotalinoro				
	8.7.3.11	Hoistway Door-Locking			See 8.7	'.2.11	
	8.7.2.11	Hoistway Door-Locking	g Devices, Access Switches & Parking Devices		See Be	elow ↓	
			and test requirements, see 8.10.3.3.2(aa)				
	8.7.2.11.1	Interlocks		_	Major	mrr	Minor B
	0.7.2.11.1		Comonal	_	iviajoi	11111	WIIIIOI D
		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	
						-	i
		2.14.5.7	Restricted Opening of Car Doors (Interlock or Restrictor)			n/a	!
L		2.24.8.3	Driving-Machine Brake				
	8.7.2.11.2	Mechanical Locks and	Helectric Contacts	_	Major	mrr	Minor B
	0.7.2.11.2			_	iviajui	11111	IVIII IOI D
		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				
		2.24.0	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					
			<del>-</del>				
	8.7.2.11.4 (a)	Addition of Unlocking		-	Minor B		mrr
		2.12.6	Hoistway Door Unlocking Devices				
		2.24.8.3	Driving-Machine Brake				
			3				
	0 7 0 11 1 (b)	Addition of Assess Cu	vitabaa		Minor		22 55
	8.7.2.11.4 (b)	Addition of Access Sv		-	Minor A		mrr
		2.12.7	Hoistway Access Switches				
		2.24.8	Braking System and Driving-Machine Brake				
		2.26.1.4	Inspection Operation				
			1 -1				
	0.7.0.44.5	Destricted Organisms of	LIAM on Con Doors of Doors on Flouriters (Doorsinters) (Alternal on Installed)	Minor B	ana balaw	no rr	Minor D
	8.7.2.11.5	Restricted Opening of	H/W or Car Doors of Passenger Elevators (Restrictors) (Altered or Installed)	IVIII IOI D	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 11 5 7/6	•		Minor A		
		Z. 14.5.7 (D)	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		
	8.7.3.12	Dower Operation of L	oistway Doors (Addition / Alteration to Power Open or Close)	Minor A	Minor		
	0.7.3.12			IVIITIOF A	Minor A		
		•	and test requirements, see 8.10.2.3.2(a)				
		<u>8.7.2.10.1</u>	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				
<b> </b>		<u>8.7.2.10.5</u>	Marking of Entrance Assemblies				
		<u>8.7.3.10</u>	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				
<b>-</b>							
		<u>2.26.4.2</u>	Listed/Certified and Labeled/Marked B44.1/A17.5 if New				
	8.7.2.12★1	★ Replacement of De	por Operator	-	-	mrr	Minor B
		2.13.(*)	Power Operation of Hoistway Doors and Car Doors				
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2.13.5.4, 2.13.5.5, 2.13.5.6 if not previously provided				
		·					
		[8.7.2.15]★1,★	4				
	8.7.3.13	Car Enclosures and D	oor Reopening Devices				
			Pagid /*\=\u/Evamptiona +=TSSA Designated Alteration or Beguirament, mr				

0	1	2a   2b   2c		3	4	5	6
ž. to	D44:40	Alteration Checklist for Director's Order 296 / 22		Alter	Type of Alteration	ation Work Replac	ement with
Conforms to B44 Mark with 'X'	B44:19	(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019		Modification			Different
nform B44 Irk wit	Reference Number	Part, Section or Requirement		Change	Addition	Same	Make/Model
ပိ Ma	Number	Job Reference:			Type of Submiss	sion Require	d
	8.7.2.13.2	Door Reopening Device (Safety Edge) (Altered or Added or Replace	ed)		See <u>8.7</u>		
	8.7.2.13	Door Reopening Device (Safety Edge) (Added or Part of an Alterat		Minor B	Minor B		Minor B
		For inspection and test requirements, see 8.10.2.3.2(ee)	,				
		2.13.4 Closing Limitations for Power Operated HS Doors &	Sates				
		2.13.5 Reopening Device for Power Operated Car					
		2.13.5.3 Detection of Approaching Objects					
		2.13.5.4 Detection of Objects in the Door Pa	ath				
		if FEO provided, door opening & closing to	PHI &II at time of				
		Door Reopening Device (Safety Edge) (Replacement - Mech-Mech	or Elec to Elec)			mrr	mrr
		no change in detection features					see
						8.	6.3.8
		Door Reopening Device (Safety Edge) (Replacement - Mech-Elec				-	Minor B
		2.13.4 Closing Limitations for Power Operated HS Doors &					
		2.13.5 Reopening Device for Power Operated Car	Doors or Gates				
		2.13.5.3 Detection of Approaching Objects	OLI OII at time of				
		if FEO provided, door opening & closing to	PHI &II at time of				
	8.7.2.13.1	Car Enclosures			See <u>8.7</u>	7 2 1/	
	8.7.2.13.1 8.7.2.14	Car Enclosures Car Enclosures, Car Doors and Gates, and Car Illumination				<u>.2.14</u> elow ↓	
	0.7.2.14	For inspection and test requirements, see 8.10.3.3.2(cc)			✓ SEE D	CIOW &	
	8.7.2.14.1	Installation of New Car Enclosure		Major	_		
		2.14.* Car: Enclosure, Doors, Gates, Illumination					
		2.15. Car Frames & Platforms					
		2.17 Car and counterweight safeties					
		8.7.2.15.1 Alterations to Car Frames and Platforms					
	8.7.2.14.2	Alteration to Existing Cars		Minor A	Minor A		
	8.7.2.14.2(a)	Car Enclosure - Securing of Enclosures		Minor A	Minor A		
		2.14.1.2 Securing of Enclosures					
	8.7.2.14.2(b)	Top Emergency Exit (Altered or Added)		Minor B	Minor B		
		2.14.1.5 Top Emergency Exits					
	8.7.2.14.2(c)	Installation of Glass		Minor B	Minor B		
		2.14.1.8 Glass in Elevator Cars					
		2.14.1.8.1 Enclosures include glass					
		2.14.1.8.2 Lining of Walls or Ceilings include glass 2.14.1.8.3 Marking of each Glazing Panel				mrr	
	8.7.2.14.2(d)	Specific Equipment in Elevator Car		Minor B	Minor B		mrr
	0.7.2.14.2(u)	2.14.1.9 Equipment Inside Cars		WIIIIOI D	WIIIIOI D		1111
		(a) Handrails					
		(b) fastening devices for protective linings					
		(c) ceiling mounted hooks/tracks					
		(d) picture frames display boards, plaques					
		protrusion <38mm					
		secured to 2.14.1.2					
		material to 2.14.2.1					
		if max size to accommodate <= A3 paper (	11"x17")	mrr (not	Minor B)		
		(e) conveyor tracks in freights					
		(f) heating or cooling equipment					
		[8.7.2.15]★1,★2					
	[0 7 0 4 4] 4 4	+ Car aparating station		Minor D	Minor D	mer	Minor D
	[0.7.2.14] ★1	★ Car operating station  verify inspection operation 'if provided'		Minor B	Minor B	mrr	Minor B
		verify inspection operation it provided verify stop sw					
		verify switches operate as before (eg. FS, F	EO. Access)				
		[8.7.2.15] * 1, *2	,55555/				
	[8.7.2.14]★2	★ video cameras / surveillance equipment / video monitors		Minor B	Minor B	mrr	Minor B
		2.8.2.1 electrical equipment & wiring					
		2.14.1.2.3 securing of enclosure equipment					
		2.14.2.4 Headroom in Elevator Cars					
		[8.7.2.15] * 1, * 2					
	[8.7.2.14]★3	★ touchless or handsfree call activation		Minor B	Minor B	mrr	Minor B
		8.7.2.8 Electrical Equipment, Wiring					
		Disabled during FEO operation (per risk ass	essment)				
		J (F-1) Holt dot	/				

0	1	2a 2b	2c	3	4	5	6
			Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X	B44:19		(see also Guideline 296 / 22)		eration	Replace	ement with
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Con Mar	Number		Part, Section or Requirement		- 10 1 1		
		Job Reference:			Type of Submiss	ion Required	
			B44.1 / A17.5				
			schematic				
	9 7 2 14 2(a)	Sido Emorgonov Evito	Secured Chut	Major			
		Side Emergency Exits Car Ventilation	s - Secured Struct	Major Minor B	see below	mrr	see below
	0.7.2.14.2(1)	2.14.2.3	Ventilation	WIIIIOI D	Minor B	11111	Minor B
	[8.7.2.14]★4	★ ventilation with air		Mir	nor A		Minor A
	[all last last	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	r	nrr
		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	★ Partitions in Elevat	ors for High Risk Occupants	Minor B	Minor B	mrr	Minor B
			Identification of need				
			Identification of recall level during FEO				
			Safe egress of occupants during FEO				
	8.7.2.14.2(i)	Installation of Car Doo	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	Wajor	Major		
		2.14.5*	Passenger Car Doors				
		2.14.6	Freight Elevator Car Doors and Gates				
			· ·				
	8.7.2.14.4	Alteration to Car Encl	osure other than 8.7.2.14.2 - Enclosure Materials	Mir	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				
	10 7 0 441 4 0		10 11 0 11 1				
	[8.7.2.14]★6	★ Installation of Viny 2.14.2.1.2	I Graphics - Car Interiors  Data sheets to reflect conformance to flame and smoke levels	Mir	nor B		
		2.14.2.1.2	Data sheets to renect comornance to name and smoke levels				
	O Reg 209/01s30	★ Relocation of Flev	ator License to remote location	Minor B†	_		
		A Projection of Eleve	and Electrica to formate location	Willion By			
	8.7.2.14.5	Addition of Car Top R	ailing	Minor B	Minor A	-	Minor A
		·	and test requirements, see 8.10.2.3.2(rr)				
		8.7.2.14.5.1	Installation of a Standard Railing	Minor B	Minor A	-	Minor A
		2.14.1.7	Railing and Equipment on Car Enclosure Top				
		8.7.2.14.5.2	Stowable, Foldable, Collapsible	Minor B	Minor A	-	Minor A
			(a) when stowed operation in any mode except inspection				
			(b) when fully extended operation in inspection mode only				
			(c) no operation if between stowed and extended				
			(d) positively opening switch when leaving stowed position (e) positively opening switch when leaving extended position				
			(f) single failure protection				
			(g) means to prevent upward movement beyond allowed point				
			(h) when extended railing meets 2.01.2				
			(i) force to retract not to exceed 220N (50 lbf)				
			·				
	[8.7.2.14]★7	★ Installation of othe	r equipment	Var	iance		
	8.7.3.14	Car Frames and Platf		Major	-	M	ajor
		For inspection 3.15.	and test requirements, see 8.10.3.3.2(dd)  Car Frames & Platforms				
	8.7.3.15	Safeties	Car or Cwt (plunger gripper see 8.7.3.23.7)		See Be	elow ↓	
	8.7.3.15 8.7.3.15.1	Car Safeties	out of Owe (plunger gripper see 0.1.0.20.1)	-	→ See Bi	mrr	Minor A
	0.7.0.10.1		and test requirements, see 8.10.3.3.2(e)		iviajoi		WIII OF A
		3.17.1	Car Safeties				
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
		3.28.	Layout Data				
	8.7.3.15.2	Counterweight Safetie	·	-	Major	mrr	Minor A
		For inspection	and test requirements, see 8.10.3.3.2(e)				

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		Zu Zb	Alteration Checklist for Director's Order 296 / 22	J	Type of Altera	ation Work
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replacement with
form B44 k witl	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same Different
onto B ark	Number		Part, Section or Requirement	Change	Addition	Make/Model
ວັ ≥		Job Reference:			ype of Submiss	sion Required
		3.17.2	Counterweight Safeties			
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings			
		3.28.	Layout Data			
	8.7.3.15.3		Car or Counterweight Safeties	Major		mrr Minor A
	0.7.3.15.3		and test requirements, see 8.10.3.3.2(e)	iviajoi	-	mrr Minor A
		•	Car and counterweight safeties and plunger gripper			
		3.17(*)				
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings			
		3.28.	Layout Data			
						0.40
	8.7.3.16	Governors and Gover	<u>'</u>		See <u>8.7</u>	
	8.7.2.19	Speed Governors and		Major	Major	\$See Below
	0.7.0.40	· ·	and test requirements, see 8.10.3.3.2(f)			
	8.7.2.19	2.18.	Speed Governors			mrr Minor A
						see
						8.6.3.6
	8.7.2.19	2.17.15	Governor Rope Releasing Carriers			mrr mrr
						see 8.6.3.9
	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			
			2.18.7 Traction between Speed Governor Rope & Sheave			
		& testing to	2.17.3 Function and Stopping Distances of Safeties			
	8.7.3.17	Change in Type of Se	ervice: Passenger to Freight OR Freight to Passenger	Major	-	
		For inspection	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			
			Car: Enclosure. Doors. Gates. Illumination			
		3.14.	2.14 Car: Enclosure, Doors, Gates, Illumination			
			• • •			
		0.45	2.14.1.7.1 car top guard rail to 8.7.2.14★4			
		3.15.	Car Frames & Platforms			
		a 1=	2.15 Car Frames & Platforms			
		3.17.	Car and Counterweight Safeties			
		0.01	2.17 Car and Counterweight Safeties			
		3.21.	Counterweights			
		0.00	2.21 Counterweights			
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings			
			2.23 Guide Rails, Guide-Rail Supports, and Fastenings			
		2.18.(*)	Speed Governors			
		3.16.	Capacity & Loading			
		3.18.	Hydraulic Jacks			
		3.19.	Valves, Pressure Piping, and Fittings			
		3.20.	Ropes and Rope Connections			
		3.24.	Hydraulic Machines and Tanks			
		3.25.	Terminal-Stopping Devices			
		3.26.	Operating Devices and Control Equipment			
		3.27.	Emergency Operation and Signaling Devices			
			2.27 Emergency Operation & Signaling Devices			
			as modified by <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			
ldot			(a) low oil protection			

0	1	2a 2b	2c	3	4	5	6
ò ×	B44:19		Alteration Checklist for Director's Order 296 / 22	Alter	Type of Alter ration	ation Work Replac	ement with
Conforms to B44 Mark with 'X'	Reference		(see also Guideline 296 / 22) Scope of Alteration - B44 - 2019	Modification			Different
nto B2 ark v	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
Co Ma	Nulliber	Job Reference:	,	7	ype of Submis	sion Require	d
			(b) plunger follower guide protection				
			(c) auxiliary power lowering				
			(d) oil tank temperature shutdown				
			3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation				
			3.27.3 Device Actuation at Recall Level				
			3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect				
			2.27.1 Car Emergency Signalling Devices				
			2.27.2 Emergency or Standby Power systems				
			2.27.3 FEO: Automatic Elevators				
			CAD 2.27.3.2.2 & CAD 2.27.3.2.4				
			2.27.4 FEO: Non-Automatic Elevators				
			2.27.5 FEO: Automatic Elevators w/Attendant				
			2.27.6 FEO: Inspection Operation				
			2.27.7 FEO: Operating Procedures				
			2.27.8 Switch Keys				
			2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC				
	8.7.3.18		oading: [A, B, C1, C2, C3]	Major	-		
		·	and test requirements, see 8.10.3.3.2(j)				
		2.16.2 3.16.	Minimum Rated Load for Freight Elevators Capacity & Loading				
		3.16. 2.16.1.3	if changing freight loading class of a passenger elevator				
		2.10.1.3	3.16 Capacity and Loading				
	8.7.3.19	Carrying of Passenge	ers on Freight Elevators	Major			
	0.7.0.10		and test requirements, see 8.10.3.3.2(j)	Wajor			
		3.16.4	2.16.4 except 2.16.4.3				
		2.16.4	Carrying of Passengers on Freight Elevators				
		2.16.4.1	not accessible to general public				
		2.16.4.2	rated load not less than required by 2.16.1				
		2.16.4.4	H/W entrances to 2.12.1.1 & 2.11.2.1 or 2.11.2.2(e)				
		2.16.4.5	car doors to 2.14.5 Passenger Car Doors				
		2.16.4.6	car enclosure openings to 2.14.2.2 Prohibited Openings				
		2.16.4.7	Fs for suspension ropes to Table 2.20.3				
		2.16.4.8	Power Operated vertical doors to 2.13.3.4				
		*	apron guard to ED CAD or extent pit permits				
		*	2.16.5 Signs Required in Freight Elevator Cars				
	8.7.3.20	Increase in Rated Lo	ad n and test requirements, see 8.10.3.3.2(j)	Major	-		
			•				
		2.26.1.4 2.26.1.5	Inspection Operation Inspection Operation with Open Door Circuits				
		2.26.5	System to Monitor & Prevent Automatic Operation w/ Faulty Door Contacts				
		3.14.	Car: Enclosure, Doors, Gates, Illumination 2.14 Car: Enclosure, Doors, Gates, Illumination				
			2.14 Car. Enclosure, Doors, Gates, illumination 2.14.1.7.1 car top guard rail to [8.7.2.14] ★4				
		3.15.	Car Frames & Platforms - *apron guard to ED CAD/as pit				
		3.16.	Capacity & Loading				
		3.17.	Car and Counterweight Safeties				
		3.20.	Ropes and Rope Connections				
		3.21.	Counterweights				
		3.22.	Buffers and Bumpers				
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
		8.7.3.23.4	Increase in Working Pressure				
			•			J	
	8.7.3.21		ght 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				
		2.15	2.14.1.7.1 car top guard rail to [8.7.2.14] *4				
		3.15. 3.16	Car Frames & Platforms - ★apron guard to ED CAD/as pit				
		3.16. 3.17	Capacity & Loading				
		3.17. 3.20.	Car and Counterweight Safeties Ropes and Rope Connections				
		3.21.	Counterweights				
		3.22.	Buffers and Bumpers				
		U.LL.	Balloto alla Ballipoto				

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U	1	2a 2b	Alteration Checklist for Director's Order 296 / 22	3	Type of Altera	ation Work	В
ž ž	B44:19		(see also Guideline 296 / 22)	Altei	ration		ment with
ms 4 ith	D44:19						
onforms to B44 Mark with 'X	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X	Number		Part, Section or Requirement				
9 -		Job Reference:		7	ype of Submiss	sion Required	
		3.23.	Guide Rails, Guide-Rail Supports, and Fastenings				
		0.20.	ourse raine, ourse rain oupporte, and ractioning				
		0.7.0.00.4					
		8.7.3.23.4	Increase in Working Pressure				
		[8.7.2.15] <b>★</b> 1(a	) to (e)				
	[8.7.3.21] *0	★ Missing Crosshead	d Data Tag (Tag Required)	Minor B	Minor B		
		[8.7.2.15]★0					
	[8 7 3 21]±1		ase Deadweight of Car (Less than 115 kg and Less than 5%)	Minor B	Minor B		
	[0.7.0.21] ^ 1			WIIIIOI D	WIIIIOI D		
		[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				
		[0.7.2.10] ^ 1(0					
			(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				
$\vdash$							
			(6) new percent counterweight overbalance value				
			(e) testing prior to operation to ensure security of interior finishes				
	[8.7.3.21]★2	★ Cumulative Incre	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	Change in Rise or Ra	ted Speed	Major			
	8.7.3.22.1	Increase or Decrease		Major	_		
	0.7.0.22.1			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	Increase in Rated Spe		Major	-		
		For inspection	and test requirements, see 8.10.3.3.2(j)				
		2.5.	Horizontal Car and Counterweight Clearances				
		3.4.	Bottom and Top Clearances and Runbys for Cars and Cwts				
$\vdash$		3.21.1	·				
<b>—</b>			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				
		` '	<u> </u>				
<b>—</b>		3.16.	Capacity & Loading				
		3.25.	Terminal-Stopping Devices				
		3.26.1	Operating Devices and Control Equipment				
		3.26.2	Inspection Operation				
		3.26.3	Anti-Creep and Leveling Operation				
			Electrical Protective Devices				
$\vdash$		3.26.4					
		3.26.5	Phase-Reversal and Failure Protection				
		3.26.6	Control and Operating Circuits				
		3.20.	Ropes and Rope Connections				
	8.7.3.22.3	Decrease in Rated Sp		Major	-		
		·		.viajoi			
		· · · · · · · · · · · · · · · · · · ·	and test requirements, see 8.10.3.3.2(j)				
		3.4.	Bottom and Top Clearances and Runbys for Cars and Cwts				
		2.18.2	Tripping Speeds for Speed Governors				
		3.16.	Capacity & Loading				
		3.16.3(b)	Capacity & data plates				
$\vdash$		2.26.4.1	Electrical Equipment and Wiring				
		2.26.4.2	Drive Machine Controllers for Stopping/Starting/Controlling				
			Pogld /*\-w/Evemptions +-TSSA Designated Alteration or Requirement m				

0	1	2a 2b	2c	3	4	5	6
。 ·		A	Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	I	ration	Replace	ment with
iform B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Con Mar	Number		Part, Section or Requirement				
-		Job Reference:			ype of Submiss	ion Required	
	8.7.3.23	Hydraulic Equipment			See Be		
	8.7.3.23.1	Alter / Install / Replace	•	Major	-	Ma	ajor
		•	nd test requirements, see 8.10.3.3.2(n)			0 (	2 2 40 4
	8.7.3.23.2	3.18. Alter / Install / Replace	Hydraulic Jacks	Major			6.3.10.1 or A
	0.7.3.23.2		nd test requirements, see 8.10.3.3.2(n)	Major	-	IVIII	IOI A
		•	Roped-Hydraulic Elevator				
			Plungers				
	8.7.3.23.3	Alter / Install / Replace	· ·	Major	-	Min	or A
		-	nd test requirements, see 8.10.3.3.2(n)	,			
		•	Cylinders			see 8.6	3.3.10.2
		3.18.3	Cylinder is Altered				
		3.18.3	Cylinder is Sleeved	Minor A			
		3.18.4.1	Metal Stops and/or Other Means				
			Roped-Hydraulic Elevator				
			Plungers				
	8.7.3.23.4	Increase in Working Pr		Major	-		
		-	nd test requirements, see 8.10.3.3.2(h)				
			Hydraulic Jacks				
			Valves, Pressure Piping, and Fittings Marking Plates				
			Marking Plates Tanks				
		_	Atmosphere Storage and Discharge Tanks				
			Welding				
	8.7.3.23.5	Change in Location of I		Major	_		
	0.7.10.120.0		nd test requirements, see 8.10.3.3.2(i)	Major			
			Hydraulic Elevators				
	8.7.3.23.6	Relocation of Hydraulic	: Machine (Power Unit)	Minor A	-		
		For inspection a	nd test requirements, see 8.10.3.3.2(y)				
		3.26.8	Pressure Switch				
	8.7.3.23.7	Plunger Gripper		Minor A	Minor A		
			nd test requirements, see 8.10.3.3.2(t)				
			Plunger Gripper				
		` '	strength of pit floor				
		3.22.1	no strike when buffers compressed				
	[Q 7 2 22 7 1 <b>→</b> 1	Removal of Plunger Gr	innor	Minor A			
	[0.7.3.23.7] 🖈 1	_	Level of Safety shall not be diminished	WIIIIOI A	-		
			Cylinders				
			Overspeed Valves				
			Bottom Car Runby				
			•				
	8.7.3.24	Valves, Pressure Pipin					
		•	nd test requirements, see 8.10.3.3.2(o)				
	8.7.3.24 (a)	•	Control Valves	Minor A	-	mrr	Minor B
		3.19.	Valves, Pressure Piping, and Fittings			see 8	.6.3.11
	0 7 2 04 /5	Alter / Depless	Poliof Chook Shutoff Manual Lawaring on Overson of Value	Minor	Minor	PO 15-1	Minor D
	8.7.3.24 (b)	•	Relief, Check, Shutoff, Manual Lowering, or Overspeed Valve	Minor A	Minor A	mrr	Minor B .6.3.11
		3.19.	Valves, Pressure Piping, and Fittings			see 8	.0.3.11
	8.7.3.24 (c)	Supply piping is reroute	ed	Minor A	Minor A	Min	or B
	0.1.0.24 (0)		Valves, Pressure Piping, and Fittings	WIII IOI A	WIIIIOI A		.6.3.11
	8.7.3.24 (d)	Supply piping is replace		-	_	mrr	Minor B
	- ()		Valves, Pressure Piping, and Fittings				.6.3.11
	8.7.3.24 (e)	Mechanically operated	valve replaced by electrically operated valve	Minor A	Minor A	Min	or B
			existing terminal stopping devices permitted to be retained			see 8	.6.3.11
	8.7.3.25	Suspension Ropes and			See Be	elow 🖟	
			nd test requirements, see 8.10.3.3.2(ee)				
	8.7.3.25.1	Change in Number of,		Major	-		
		3.20.	Ropes and Rope Connections				

0	1	2a 2b 2c	3	4	5	6
- 0		Alteration Checklist for Director's Order 296 / 22	3	Type of Altera	ation Work	0
š ×	B44:19	(see also Guideline 296 / 22)	Alter			ement with
forms B44 k with	Reference	Scope of Alteration - B44 - 2019	Modification			Different
Conforms to B44 Mark with 'X	Neierence	Part, Section or Requirement	Change	Addition	Same	Make/Model
င္ပ Ma	Number			oma of Culturalisa	ion Domillod	
		Job Reference:		ype of Submiss	sion Required	
		PEO to certify retained sheaves w/different ropes are satisfactory				
	8.7.3.25.1	Change in Material / Grade of Ropes	Minor A	-		
		3.20. Ropes and Rope Connections				
		PEO to certify retained sheaves w/different ropes are satisfactory				
		1 20 to commy returned enterior in amore in repost and constitution				
	0.7.0.00.0	Addition of Dana Equalitars	Minor B	Minor D		
	8.7.3.25.2	Addition of Rope Equalizers	MILIOI B	Minor B		
		2.20.5 Suspension Member Equalizers				
	8.7.3.26	Counterweights - Alteration of		See 8.7	.2.22	
	8.7.2.22	Counterweights	Minor A	-		
		For inspection and test requirements, see 8.10.2.3.2(ii)				
		For inspection and test requirements, see 8.10.3.3.2(ff)				
	8.7.2.22.1	Alteration to any part of a cwt except guiding members				
		2.21. Counterweights				
		3.21. Counterweights				
1		8.7.2.22.2 Rod Type Counterweights				
	0.7.0.00.0	8.7.2.3 Location and Guarding of Counterweights				
	8.7.2.22.2	Rod Type Cwt - can retain if:				
		Minimum of 2 suspension and 2 tie rods				
		Suspension rods:				
		2.21.2.1 Material - Cwt Frames & Rods				
		2.21.2.3 Factor of Safety				
		Tie Rods:				
		2.21.1.2 Retention of Weight Sections				
	8.7.2.22.3	Roller or similar guide shoes added	m	rr	n	nrr
	0.1.2.22.3		111	111		1111
		safety jaws cannot touch rails if not activated				
	8.7.3.26	Counterweights - Addition of	-	Major		
	`	For inspection and test requirements, see 8.10.3.3.2(ff)				
		3.4. Bottom and Top Clearances and Runbys for Cars and Cwts				
		3.6. Protection of Spaces below Hoistway				
		3.14. Car: Enclosure, Doors, Gates, Illumination				
		2.14 Car: Enclosure, Doors, Gates, Illumination				
		2.14.1.7.1 car top guard rail to [8.7.2.14] ★4				
		3.15. Car Frames & Platforms				
		3.17.2 Counterweight Safeties				
		3.18. Hydraulic Jacks				
		3.20. Ropes and Rope Connections				
		3.21. Counterweights				
		8.7.3.3 Location and Guarding of Counterweights				
	8.7.3.27	Car Buffers and Bumpers	Major	-	mrr	Minor B
		For inspection and test requirements, see 8.10.3.3.2(c)				
		3.21. Counterweights				
		3.22.2 Counterweight Buffers				
		existing buffers exempt from 2.22.4(*)				
		Ondaing ballots oxollipt from 2.22.4( )				
	0 7 2 20	Guide Rails, Supports, and Fastenings (alteration to, or stress increase >5%)	Maior			
	8.7.3.28		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	-	Mir	nor B
		For inspection and test requirements, see 8.10.3.3.2(k)				
		3.24. Hydraulic Machines and Tanks			see 8.	6.3.10.4
	[8.7.3.29]★1		Min	or B	Mir	nor B
		8.7.3.8 Electrical Wiring, Pipes, and Ducts in H/W and M/C rooms				
		2.7.2 Maintenance Path and Clearance				
		3.10. Guarding of Exposed Auxiliary Equipment				
	0.7.0.00	Tarminal Stanning Davisco	MinarD	Minar		
	8.7.3.30	Terminal-Stopping Devices	Minor B	Minor B		
		For inspection and test requirements, see 8.10.3.3.2(k)				
		3.25. Terminal-Stopping Devices			l	
	8.7.3.31	Operating Devices and Control Equipment		See Be	elow 🖟	
		For inspection and test requirements, see 8.10.3.3.2(k)				
		<del></del>				

Job Reference: Type of Submission Required	0	1	2a 2b	2c	3	4	5	6
8,7,3,31,1   Top-of-Car Operating Devices   Top-of-Car Operating Devices   Sec (A.) 3.8.3     (8,7,3,31)   1   Alternation / Addition of any type of inspection operation   Sec (A.) 3.8.3     (8,7,3,31)   1   Alternation / Addition of any type of inspection operation   Sec (A.) 3.8.3     (8,7,3,31)   2   Exercise   E	<u>د</u> و	<b>5</b>			Alte	Type of Altera	ation Work	ement with
8,7,3,31,1   Top-of-Car Operating Devices   Top-of-Car Operating Devices   Sec (A.) 3.8.3     (8,7,3,31)   1   Alternation / Addition of any type of inspection operation   Sec (A.) 3.8.3     (8,7,3,31)   1   Alternation / Addition of any type of inspection operation   Sec (A.) 3.8.3     (8,7,3,31)   2   Exercise   E	ms t 4 /ith '	B44:19				lation	replace	7
St.   St.   Top-OcCar Operating Devices   St.   Top-OcCar Operating Devices   Sec (AD 3.8.3   (8.7.3.31.4.1   Alteration   Adollton of any type of inspection Operation   Sec (AD 3.8.3   (8.7.3.31.4.1   Alteration   Adollton of any type of inspection Operation   Sec (AD 3.8.3   (8.7.3.31.4.1   Alteration   Adollton of any type of inspection Operation   Sec (AD 3.8.3   Sec (AD 3.	nfor B4 rk v	Reference				Addition	Same	Make/Model
8,7.3.31.1   Top-ef-Car Operating Devices   Impaction Operation   See CAD 3.8.3   (8,7.2.15) 4.1, +2   (8,7.3.31) **.1   Allatration / Addition of any type of inspection Operation   S.7.2.2.7.1 (a)   Alteration or Addition of any type of Inspection Operation   S.7.2.2.7.1 (a)   Alteration or Addition of any type of Inspection Operation   S.7.2.2.7.1 (a)   Alteration or Addition of Door By-Pass Switches   S.7.3.31.2   **.2.2.7.1 (a)   Alteration or Addition of Door By-Pass Switches   S.7.3.31.2   **.2.2.7.1 (a)   Alteration or Addition of Door By-Pass Switches   S.7.3.31.3   Alter / Replace   Anti-Crope Leveling Device   Anti-Crope Leveling Devi	လ Ma	Number	Job Reference	Turi, occion or requirement	-	Type of Submiss	sion Required	1
(8,7.3.31)*1   Alteration / Assistance   A		873311		Devices				Minor A
[8.7.3.31]**  Minor A								
(8.7.3.31)**   Addition of any type of inspection operation   8.7.2.71(a) Altraiston or Addition of any type of inspection Operation   sec CAD 3.8.3   (8.7.3.31)**2 * Door By-Pass Switches   S.7.2.71(b) Alteration or Addition of Door By-Pass Switches   S.7.2.71(b) Alteration or Addition of Door By-Pass Switches   S.7.2.71(b) Alteration or Addition of Door By-Pass Switches   Minor A Minor A Minor A For inspection and test requirements, see 8.10.3.3.2(bit)   Minor A Minor A Minor A For inspection and test requirements, see 8.10.3.3.2(bit)   Minor B For inspection and test requirements, see 8.10.3.3.2(bit)   S.26.3.1   Anti-Creep Develop Device   Anti-Creep Develop Device   For inspection and test requirements, see 8.10.3.3.2(bit)   S.26.3.1   Anti-Creep Operation   Anti-Creep Operation   Minor B				·				
8.7.2.37.1(a)   Alteration or Addition of any type of Inspection Operation   3.26.2   Inspection Operation   see CAD 3.8.3			[8.7.2.15]★1,★	-2				
8.7.3.31.★2		[8.7.3.31]★1	Alteration / Addition o	f any type of inspection operation	Minor A	Minor A		
8,7.3.31]								
8,7.3.31,2   2			3.26.2					
8.7.3.31.2  8.7.3.31.3  8.7.3.31.3  8.7.3.31.3  8.7.3.31.3  8.7.3.31.4  8.7.3.31.4  8.7.3.31.4  8.7.3.31.5  8.7.3.5  8.7.3.31.5  8.7.3.5  8.7.3.31.5  8.7.3.5  8.7.3.5  8.7.3.5  8.7.3.5  8.7.3.5  8.7								
8.7.3.31.2   Car-Leveling or Truck-Zoning Devices   For inspection and test requirements, see 8.10.3.3.2(hh)   3.26.3.2   Operation in Leveling por Truck Zone   Anth-Creep Leveling Device   For inspection and test requirements, see 8.10.3.3.2(h)   3.26.3.1   Anth-Creep Operation   Anth-Creep Ope		[8.7.3.31]★2	-		Minor A	Minor A		
For inspection and test requirements, see 8.10.3.3.2(h) 3 3 28 .2			8.7.2.27.1(b)	Alteration of Addition of Door By-Pass Switches				
S.7.3.31.3   Aller / Replace		072242	Car Lavaling or Truck	Zoning Dovings	Minor A	Minor A		
8.7.3.31.3  Alter / Replace Author-Creep Leveling Device For inspection and test requirements, see 8.10.3.3.2(ii) 3.26.3.1 Antil-Creep Operation  8.7.3.31.4 Change in Power Supply For inspection and test requirements, see 8.10.3.3.2(ii) (a) voltage, frequency or # of phases or (b) AC to DC, DC to AC or (c) combination of DC & AC, then electrical to: 3.26.1 Operating Devices and Control Equipment 3.26.3 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 Start 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Failure Protection 4.7.3.31] * 4 * Addition of Power Efficiency Increasing Device B44.1 certified 2.26.4.1 & 2 OESC, CSA C22.1 & B44.1 certified 3.7.3.31.5(a) Install / Replace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.3.3.2(s)  8.7.3.31.5(a) Maintenance Path and Clearance 8.7.2.2 Means of Access 1.7.2 Means of Access 1.7.2 Means of Access Indeficial Equipment, Wing, Pipes, and Ducts in H/W M/R. Listed/Certified and Labeled/Marked 2.26.4.2 Listed/Certified and Labeled/Marked 2.29.9 (Install / Replace Notrol and Operating Circuits Identification Controll)  8.7.3.31.5(b) Install / Replace Path and Clearance 8.7.2.2 Means of Access Listed/Certified and Labeled/Marked 2.26.3.3 Protection and sets requirements, see 8.10.3.3.2(e) 8.7.3.1.5(c) Install / Replace Motion Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection and test requirements, see 8.10.3.3.2(e) 8.7.2 Maintenance Path and Clearance 8.7.2.2 Means of Access Listed/Certified and Labeled/Marked 2.26.9.3 Protection against flatures 2.26.9.4 methods to satisty 2.26.9.3 shall be checked 8.7.2.2 Maintenance Path and Clearance 8.7.2.2 Maintenance Path and Clearance 8.7.2.2 Maintenance Path and Clearance 9.7.2.2 Maintenance Path and Clearance 9.7.2.2 Maintenance Path and Clearance 9.7.2.2 Maintenance Pa		0.7.3.31.2			WIIIIOI A	WIIIOI A		
8.7.3.31.3   Alter / Replace			•	• • • • • • • • • • • • • • • • • • • •				
S.7.3.31.4  S.7.3.31.4  Change in Power Supply For inspection and test requirements, see 8.10.3.3.2(ii) (a) voltage, frequency or if of phases or (b) AC to DC, DC to AC or (c) combination of DC & AC, then electrical to: 3.26.1 3.26.1 3.26.5 3.26.5 Phase-Reversal and Failure Protection 3.26.6 (f) Control and Operating Devices 3.26.5 Phase-Reversal and Failure Protection 3.26.6 (f) Control and Operating Circuits  [8.7.3.31] * 3 * Addition of Solt Start 2.26.4 1.8 2 OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Failure Protection [8.7.3.31].* * Addition of Power Efficiency Increasing Device 84.4 1.0 certified 2.26.4 1.8 2 OESC, CSA C22.1 & B44.1 certified 3.7.3.31.5 (a) Install Protection of Power Efficiency Increasing Device 84.1 certified 2.26.4 1.8 2 OESC, CSA C22.1 & B44.1 certified  8.7.3.31.5 (a) Install Proplace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.3.3.2(e) 2.7.2 Maintenance Path and Clearance 3.7.2.7 (a) Lighting, Temperature and Humidity 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 2.26.4 2 Listed/Certified and Labeled/Marked Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection and test requirements, see 8.10.3.3.2(e) 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 2.26.4 2 Listed/Certified and Labeled/Marked Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection against failures  2.26.4 2 Listed/Certified and Labeled/Marked 2.26.9 3 Protection against failures  4.7.2 Maintenance Path and Glearance 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 3.7.2 Electrical Equipment, Winng, Pipes, and Ducts		873313		·	Minor B	_	Mii	nor B
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For inspection and test requirements, see 8.10.3.3.2(ii) (a) voltage, frequency or # of phases or (b) AC to DC, DC to AC or (c) combination of DC & AC, then electrical to: 3.26.1 Operating Devices and Control Equipment 3.26.4 Electrical Protective Devices 3.26.5 Phase-Reversal and Fallure Protection 3.26.6(*) Control and Operating Circuits 2.26.4.1 & 2. OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Fallure Protection [8.7.3.31] * Addition of Soft Start 2.26.4.1 & 2. OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Fallure Protection  [8.7.3.31.5 (a) B.7.3.1.5 Octrolors  8.7.3.31.5(a) Minor I Power Efficiency Increasing Device B44.1 certified 2.26.4.1 & 2. OESC, CSA C22.1 & B44.1 certified 2.26.4.1 & 2. OESC, CSA C22.1 & B44.1 certified 3.7.2.2 Maintenance Path and Clearance Means of Access 2.7.2 Maintenance Path and Clearance Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 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 (definification Control) For inspection and test requirements, see 8.10.3.3.2(s) 3.7.2.1 Maintenance Path and Clearance 3.7.2.2 Lighting, Temperature and Humidity 3.7.2.2 Lighting, Temperature and Signalling Devices 3.7.3.31.5(c) 3.7.3.31.5(c) Listed/Certified and Labeled/Marked 4.7.2.2 Listed/Certified and Labeled/Marked 5.7.3.31.5(c) Maintenance Path and Clearance 4.7.3.3.3.3.5(c) 4.7.3.3.3.3.5(c) 4.7.3.3.3.3.5(c) 4.7.3.3.3.3.5(c) 4.7.3.3.3.3.5(c) 4.7.3.3.3.5.3.3.3.5(c) 4.7.3.3.3.3.5(c) 4.7.3.3.3								
For inspection and test requirements, see 8.10.3.3.2(ii)		8.7.3.31.4	Change in Power Sup	ply	Major	-		
(b) AC to DC , DC to AC or (c) combination of DC & AC, then electrical to:  3.26.1				• •				
(c) combination of DC & AC, then electrical to:  3.26.1 Operating Devices and Control Equipment 3.26.4 Electrical Protective Devices 3.26.5 Phase-Reversal and Failure Protection 3.26.6(*) Control and Operating Circuits  [8.7.3.31] *3 * Addition of Soft Start 2.26.4.1 *8.2 OESC, CSA C22.1 & B44.1 certified 3.26.5 Phase-Reversal and Failure Protection  [8.7.3.31] *4 * Addition of Power Efficiency Increasing Device B44.1 certified 2.26.4.1 *8.2 OESC, CSA C22.1 & B44.1 certified  2.26.4.1 *8.2 OESC, CSA C22.1 & B44.1 certified  8.7.3.31.5 (a) Install / Replace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 3.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Winng, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9 Control and Operating Circuits (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 Means of Access 2.7.9 Lighting, Temperature and Humidity 3.7.2.8 Means of Access 2.26.9.4 methods to satisfy 2.26.9.3 3 shall be checked 3.7.2.26 if install and Labeled/Marked 2.26.9.3 protection against failures 4.7.2.26 Means of Access 4.7.2.26 if installation alters Emerg. Ops and Signalling Devices 4.7.3.3.1.5(c) Maintenance Path and Clearance 4.7.3.3.3.5(c) Major - Major 4.7.3.3.3.5(c) Major - Major - Major 4.7.3.3.3.5(c) Major - Major - Major - Major 4.7.3.3.3.5(c) Major - Maj			(a) voltage, fre	quency or # of phases or				
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8.7.3.31.5(a) Install / Replace Motion Controller (no change in method of Motion Control) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 3.7.2.7.9 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 1.2.9. Identification  8.7.3.31.5(b) Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance								
For inspection and test requirements, see 8.10.3.3.2(s)  2.7.2		8.7.3.31.5	Controllers	·				
2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9 Control and Operating Circuits 2.29. Identification  8.7.3.31.5(b) Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc) For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 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. 2.26.9.3 Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance		8.7.3.31.5(a)	Install / Replace	Motion Controller (no change in method of Motion Control)	Major	-	M	ajor
8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wirring, 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  8.7.3.31.5(b) Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3 Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance			For inspection	and test requirements, see 8.10.3.3.2(s)				
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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  8.7.3.31.5(b) Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3 Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance								
2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9 Control and Operating Circuits 2.29. Identification  8.7.3.31.5(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 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance								
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8.7.3.31.5(b) Install / Replace Operation Controller (no change in method of Operation Control) (auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.3.3.2(s) 2.7.2 Maintenance Path and Clearance 8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3 Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance				, •				
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(auto to auto, non-auto to non-auto, CPPB to CPPB, etc)  For inspection and test requirements, see 8.10.3.3.2(s)  2.7.2 Maintenance Path and Clearance  8.7.2.7.2 Means of Access  2.7.9 Lighting, Temperature and Humidity  8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.  2.26.4.2 Listed/Certified and Labeled/Marked  2.26.9.3. Protection against failures  2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked  8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance		27.10.01.0(5)			.viajoi		101	-,
For inspection and test requirements, see 8.10.3.3.2(s)  2.7.2 Maintenance Path and Clearance  8.7.2.7.2 Means of Access  2.7.9 Lighting, Temperature and Humidity  8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.  2.26.4.2 Listed/Certified and Labeled/Marked  2.26.9.3. Protection against failures  2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked  8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major  For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance				,				
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8.7.2.7.2 Means of Access 2.7.9 Lighting, Temperature and Humidity 8.7.2.8 Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R. 2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s) (1) 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 2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance			8.7.2.7.2					
2.26.4.2 Listed/Certified and Labeled/Marked 2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance								
2.26.9.3. Protection against failures 2.26.9.4 methods to satisfy 2.26.9.3.3 shall be checked 8.7.2.28 if installation alters Emerg. Ops and Signalling Devices  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s) (1) 2.7.2 Maintenance Path and Clearance								
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  8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance								
8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either)  For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance								
8.7.3.31.5(c) Install / Replace Motion & Operation Controller (no change in method of either) Major - Major  For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance								
For inspection and test requirements, see 8.10.2.3.2(s)  (1) 2.7.2 Maintenance Path and Clearance			8.7.2.28	it installation alters Emerg. Ops and Signalling Devices				
(1) 2.7.2 Maintenance Path and Clearance		8.7.3.31.5(c)	Install / Replace	Motion & Operation Controller (no change in method of either)	Major	-	M	ajor
(1) 2.7.2 Maintenance Path and Clearance			For inspection	and test requirements, see 8.40.2.3.2(c)				
VII I I I I I I I I I I I I I I I I I I								
2.7.9 Lighting, Temperature and Humidity								

0	1	2a	2b	2c	3	4	5	6
0 2				Alteration Checklist for Director's Order 296 / 22		Type of Alter		
Conforms to B44 Mark with 'X'	B44:19			(see also Guideline 296 / 22)		ration	Replace	ment with
form B44 k wit	Reference			Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different Make/Model
Con Mar	Number			Part, Section or Requirement	Change			
			Reference:			Type of Submiss	sion Required	
		(2)	8.7.2.8	Electrical Equipment, Wiring, Pipes, and Ducts in H/W M/R.				
			2.26.4.2	Listed/Certified and Labeled/Marked				
				Ascending Car Overspeed & Unintended Car Movement Protection				
		(3)	3.25.	Terminal Stopping Devices				
		(4)	3.26.(*)	For Car-Switch Operation Elevators				
		(5)	2.27.2*	Emergency or Standby Power System				
				as modified by <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				
			0.07.0	(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				
			2 27 2	doors open and reclose in 15s				
			3.27.3	Device Actuation at Recall Level				
				doors open and reclose in 15s DO button remains operational				
-				visual signal is intermittent				
-			3.27.4	Device Actuation w/ Phase 2 In-Car Operation in Effect				
			3.21.4	as modified by 8.7.3.31.8(c) through 8.7.3.31.8(f)				
		(7)	If EEO provious	sly present or required by OBC; or provided by an alteration				
		(1)	2.27.3	FEO: Automatic Elevators				
			2.21.5	2.27.3.1 Phase 1 Recall Operation				
				2.27.3.2 Phase 1 Recall Operation by FAID's				
				CAD 2.27.3.2.2 and CAD 2.27.3.2.4				
				2.27.3.3 Phase 2 Emergency In-Car Operation				
				2.27.3.4 Interruption of Power				
				2.27.3.5 Multicompartment Elevators				
				see 8.7.1.2 safety levels shall not be diminished				
			2.27.4	FEO: Non-Automatic Elevators				
			2.27.5	FEO: Automatic Elevators w/Attendant				
			2.27.6	FEO: Inspection Operation				
			2.27.7	FEO: Operating Procedures				
			2.27.8	Switch Keys				
			2.27.9	Elevator Corridor Call Station Pictograph if req'd by OBC				
				as modified by <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				
				the level of activation shall not be diminished per 8.7.1.2.				
	[8.7.3.31]★5	Reloca		Elevator Controller (if control wiring disconnected - reconnected)	Major			
			2.8.2	Electrical Equipment and Wiring				
				Electrical testing as per the original design submission tests				
	8.7.3.31.5(d)	Install	ation of	Door Controller	Minor A	-	Mir	nor B
				and test requirements, see 8.10.3.3.2(q)				
			8.7.3.12	Electrical Equipment and Wiring				
	0.7.0.04.5( )	l (	-41	Out to Harton Francisco City H. D.	N.A.	N.C.		D
	8.7.3.31.5(e)	ınstall	ation of	Controller for Emergency or Standby Power	Minor A	Minor A	Mir	nor B
			8.7.2.28	Electrical Equipment and Wiring				
	0.7.0.04.5(-)	lm = 4 = 11	ation of	Controller for FFO Or costion	Min A	N dia A	N. C.	D
	8.7.3.31.5(e)	ınstall	ation of	Controller for FEO Operation	Minor A	Minor A	Mir	nor B
			8.7.2.28	Electrical Equipment and Wiring				
	8.7.3.31.6	Chana	ge in Type of Mo	otion Control	Major			
	0.1.3.31.0	Onani		and test requirements, see 8.10.3.3.2(r)	iviaj∪i	_		
		(a)	2.7.2	Maintenance Path and Clearance				
		(4)	8.7.2.7.2	Means of Access				
			2.7.9	Lighting, Temperature and Humidity				

0	1	2a 2b	2c	3 4	5 6
			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)	Alteration	Replacement with
orm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Addition	Same Different
ont  - 	Number		Part, Section or Requirement	Change	Make/Model
		Job Reference:		Type of Submis	sion Required
		(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	Glass in Hoistway Doors		
		2.11.8	Weights for Closing or Balancing Doors		
		2.11.10	Landing-Sill; Guards, Illumination, Hinged Sills, and Tracks		
		2.11.11.6	Bottom Guides		
		2.11.11.7	Multipanel Entrances		
		2.11.11.8	Hoistway Door Safety Retainers		
		2.11.11.10	Hoistway Door to Sill Clearance		
		2.11.12.8	Pull Straps		
		(d) 3.12.1(*)	H/W-Door Locking Devices, Elec. Contacts, H/W Access		
		, , , , , , , , , , , , , , , , , , , ,	2.12.6 Hoistway Door Unlocking Devices		
			2.12.7 Hoistway Access Switches		
		(e) 3.13.	Power Operation of Hoistway Doors and Car Doors		
		(f) 3.14.(*)	Car: Enclosure, Doors, Gates, Illumination		
		(g) 3.14.( )	2.14.1.7 car top railing or stowable type 8.7.2.14.5.2		
		(i) 3.16.	Capacity & Loading		
		(h) 3.17.	Car & Cwt Safeties		
		2.18.(*)	Speed Governors		
		(j) 3.25.	Terminal Stopping Devices		
		(k) 3.26.(*)	Operating Devices and Control Equipment		
		(m) 2.29.	Identification of Equipment and Floors		
		(III) 2.29. (I)	identification of Equipment and Floors		
		(1) (1) 2.27.1(*)	Car Emergency Signalling Devices		
-		(1) 2.27.1()	as modified by <u>8.7.2.28(a)</u> and <u>8.7.2.28(f)</u>		
-		(2) If EEO previou	usly present or required by OBC; or provided by an alteration		
-		3.27.	Emergency Operation and Signaling Devices		
-		5.21.	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		
			(b) plunger follower guide protection		
			(c) auxiliary power lowering		
			(d) oil tank temperature shutdown		
			3.27.2 Phase 1 Emergency Recall Operation Prior to Device Actuation		
			3.27.3 Device Actuation at Recall Level		
			3.27.4 Device Actuation w/ Phase 2 In-Car Operation in Effect		
			2.27.1(*) Car Emergency Signalling Devices		
			2.27.2 Emergency or Standby Power systems		
			2.27.3 FEO: Automatic Elevators		
			CAD 2.27.3.2.2 & CAD 2.27.3.2.4		
			2.27.4 FEO: Non-Automatic Elevators		
			2.27.5 FEO: Automatic Elevators w/Attendant		
			2.27.6 FEO: Inspection Operation		
			2.27.7 FEO: Operating Procedures		
			2.27.8 Switch Keys		
			2.27.9 Elevator Corridor Call Station Pictograph if req'd by OBC		
		except,			
		If FEO NOT p	reviously present or required by OBC; as a minimum		
			2.27.3.1 Provide Phase 1 Manual Recall Operation Only and		
			the level of activation shall not be diminished per 8.7.1.2.		
	8.7.3.31.7	Change in Type of O	peration Control - CPPB, Automatic	Major -	

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o v			Alteration Checklist for Director's Order 296 / 22		Type of Alter		
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	1	ration	Replace	ement with
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Con Mar	Number	Joh Defenence	Part, Section or Requirement			i Di	
		Job Reference:		ı	ype of Submiss	sion Required	i .
		•	and test requirements, see 8.10.3.3.2(p)				
		2.2(*)	Pits				
		2.3.	Counterweight Guarding				
		8.7.3.4 8.7.3.5	Vertical Car and Counterweight Clearances and Runbys 8.7.2.5 Horizontal Car and Counterweight Clearances				
		2.7.2	Maintenance Path and Clearance				
		8.7.2.7.2	Maintenance i atti and Olcarance				
		2.7.5	Working Areas Inside the Hoistway and in the Pit				
		2.7.6	Location of Machinery/Control Spaces/Rooms and Equipment				
		2.7.9	Lighting, Temperature, Humidity in Machinery/Control Spaces/Rooms				
		8.7.3.8	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		2.11.1	Entrances and Emergency Doors Required				
		2.11.2	Types of Entrances				
		2.11.3	Closing of Hoistway Doors				
		2.11.4	Location of Horizontally Sliding or Swinging H/W Doors				
		2.11.5	Projection of Entrances & Equip. Beyond Land'g Sills				
		2.11.6	Opening of Hoistway Doors				
		2.11.7	Glass in Hoistway Doors				
		2.11.8	Weights for Closing or Balancing Doors				
		2.11.9	Hoistway Door Locking Devices & Power Operation				
		2.11.10	Landing Sill: Guards, Illumination, hinged sills, Tracks				
		2.11.11	Entrances, Horizontal Slide Type				
		2.11.12	Entrances, Vertical Slide Type				
		2.11.13	Entrances, Swing Type				
		3.11.1	Protection of Hoistway Landing Openings				
		3.12.1	H/W-Door Locking Devices, Elec. Contacts, H/W Access				
		3.13.	Power Operation of Hoistway Doors and Car Doors				
		3.14.(*)	Car: Enclosure, Doors, Gates, Illumination				
			2.14.1.7 car top railing or stowable type <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 <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 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		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		ted Access - Security / Floor Lock Out	Minor B	Minor B		
			) - shall not prevent floor access When on FEO				
i I		D.O. Button Rema	in Operative Under non FEO Conditions, Door Closed When not in Use				

0	1	2a 2b	2c	3	4	5	6
		24 22	Alteration Checklist for Director's Order 296 / 22	, in the second	Type of Altera		
Conforms to B44 Mark with 'X	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
ont     	Number		Part, Section or Requirement	Change			Make/Model
_		Job Reference:		•	Type of Submiss	sion Required	l
		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				
	[8.7.2.31]★8	★ Addition of Destina	ation 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				
	8.7.3.31.8	Emorgoney Operation	and Signaling Devices				
	8.7.3.31.8(a)	Car Emergency Signa		Minor B	Minor B	r	nrr
	0.7.3.31.0(a)	0 , 0	and test requirements, see 8.10.3.3.2(nn)	WIIIIOI D	IVIIIIVI D		1111
		2.27.1	Car Emergency Signaling Devices				
		2.21.1	visual & audible signal permitted to be inside the car				
		8.7.2.8	Electrical Equipment, Wiring, Pipes, Ducts in H/W and M/Rs				
		<u>8.7.2.8</u> 2.26.4.2	Listed/Certified Labeled/Marked				
		2.29.	Identification (for elevators in the same group)				
		2.20.	assimination (for diovators in the same group)				
	8.7.3.31.8(b)	Emergency or Standb	ov Power	Minor B	Minor A		
	5.7.5.5 1.5(b)		and test requirements, see 8.10.3.3.2(I)	.,ог Б	MINOT A		
		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)				
		2.20.	radiamedian (for dievatore in the earne group)				
	8.7.3.31.8(c)	Firefighter's Emergen	cy Operation	Minor B	Minor A		
	(-)		and test requirements, see 8.10.3.3.2(m)				
		3.27.	Emergency Operation and Signaling Devices				
		3.2.1	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 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]★9	★ Emerg. Recall Upg	grade - from Manual to Automatic & matching code at time of instal	Min	or B		
			conformance to auto recall based on F.S. at time of install				
	[8.7.3.31.8] <b>★</b> 10	★ Emerg. Recall Up	grade to comply with a Fire Code Retrofit Order	Minor B	Minor A		
			2.27.3 FEO: Automatic Elevators				
	8.7.3.31.9	Auxiliary Power Lowe		Minor B	Minor B		
		•	and test requirements, see 8.10.3.3.2(oo)				
		3.26.10	Auxiliary Power Lowering Operation				
			include testing procedure				

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		20 25	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
form B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
ont E Iark	Number		Part, Section or Requirement	Change	Addition	Carrio	Make/Model
ს ≥		Job Reference:			Гуре of Submiss	ion Required	
	8.7.3.31.10	Removal of emergence	cy stop switch on passenger elevators	Minor B	Minor B		
			and test requirements, see 8.10.3.3.2(kk)				
			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	Electrical Protective D	Devices		Below ↓		
		For inspection	and test requirements, see 8.10.3.3.2(II)				
			of an Electrical Protective Device	Major	Major	mrr	Major
		3.26.4	Electrical Protective Devices - for specified device		-		-
			·				
	8.7.3.31.12	Change of Hydraulic F	Pump Motor Starter - (no control valve )		Below ↓		
			and test requirements, see 8.10.3.3.2(pp)				
			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				
		· . <u>-</u>					
	8.7.3.31.13	Door Monitoring Syste	em		Below ↓		
			and test requirements, see 8.10.3.3.2(mm)				
	8.7.2.27.9		of a System to Monitor faulty door contract circuits	Minor A	Minor A		
		2.26.5	System to Monitor & Prevent Automatic Operation w/ Faulty Door				
			Contacts				
	8.7.4	Alterations to Fleva	tors w/other Types of Driving Machines				
	8.7.4.1	Rack and Pinion Elev		Major	_		
	0.7.4.1	4.1.	Rack and Pinion Elevators	Major			
	8.7.4.2	Screw-Column Elevat		Major	_		
	0.7.4.2	4.2.	Screw-Column Elevators	Major			
	8.7.4.3	Hand Elevators	Colow Column Elevators	Major	_		
	8.7.4.3.1		and Machinery Space	Major	_		
	0.7.4.0.1	4.3.1	Hoistways, H/W Enclosures, and Related Construction	Major			
		4.3.4	Enclosures for Machines and Control Equipment				
	8.7.4.3.2	Top Car and Counter		Major	_		
	0.7.4.0.2	4.3.3	Top Clearances	iviajoi	_		
	8.7.4.3.3	Hoistway Entrances	10p Olcaranocs	Major	_		
	0.7.4.0.0	4.3.6	Hoistway Entrances	Widjoi			
		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	_		
	JV.4	4.3.9	Car Enclosures	Major			
		4.3.11	Car Frames and Platforms				
	8.7.4.3.5	Car Frame and Platfo		Major	_		
		4.3.11	Car Frames and Platforms	ajoi			
		4.3.12	Car Compartments				
		4.3.13	Cars Counterbalancing One Another				
		4.3.16	Suspension Means				
	8.7.4.3.6	Capacity & Loading	Supplied Hours	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	Outportation Micaria	Major	_		
	J.7. <del>4</del> .J.7	4.3.3.1	Top Car Clearances	IviajUi	-		
		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 Faste		Major	_		
1	0.7.4.3.0	4.3.18.1	Guide Rails - Material and Finish	iviaj∪i	_		
		4.0.10.1	Guide Italia - Material allu Filliali				

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		20	Alteration Checklist for Director's Order 296 / 22		Type of Alter	ation Work	
is to	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
Conforms to B44 Mark with 'X'	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
Con⊓ Mari	Number		Part, Section or Requirement	Change			Make/Model
		Job Reference:			Type of Submiss	sion Required	d
		4.3.18.2	Strength of Rails and Fastenings				
		4.3.18.3	Extension of Guide Rails at Top & Bottom of H/W				
	8.7.4.3.9	Overhead Beams and	••	Major	-		
		4.3.5.1	Overhead Beams and Supports Access to Machines and Sheaves				
	8.7.4.3.10	4.3.5.2 Power Attachments	Access to Machines and Sheaves	Major			
	0.7.4.3.10	rower Attacriments		iviajui	-		
	8.7.5	Alterations to Speci	al Application Elevators				
	8.7.5.1	Inclined Elevators	al Application Elevators	Major			
	0.7.5.1	5.1.	Inclined Elevators	iviajoi	-		
		0.1.	compliance to specific 5.1 sections based on alteration scope	vari	ance		
	8.7.5.2	Limited Use/Limited A		_	lectric or Hy	/draulic El	evator
	[8.7.5.2]★1		Alterations to Electric Elevator & as modified in Section 5.2				
	[8.7.5.2] <b>★</b> 2		Alterations to Hydraulic Elevator & as modified in Section 5.2				
		Power Sidewalk Eleva		Major	-		
	8.7.5.5.1	Changes in Electrical	Wiring or Electrical Equipment	Major	-		
		5.5.1.8	Equipment in Hoistways & Machine Rooms				
	8.7.5.5.2	Sidewalk Door		Major	-		
		5.5.1.11.2	Horizontal Openings in Sidewalks and Exterior Areas				
		5.5.1.11.3	Hinged Type Swing Sidewalk Doors				
		5.5.1.11.4	Vertical Lifting Sidewalk Covers				
	8.7.5.5.3		sure, Car Doors, and Gates	Major	-		
		5.5.1.14	Car Enclosure, Car Doors and Gates, Illumination				
	8.7.5.5.4	Bow-Irons and Stanch		Major	-		
	0.7.5.5	5.5.1.15.2	Bow-Irons and Stanchions	Matan			
	8.7.5.5.5	Increase in Rated Loa		Major	-		
		5.5.1.16 5.5.1.18	Capacity & Loading Speed Governors				
		5.5.1.16	Buffers and Bumpers				
		5.5.1.25.4	Maximum Rated Speed				
	8.7.5.5.6	Increase in Rated Spe		Major	_		
	0.7.0.0.0	5.5.1.15	Car Frames and Platforms	iviajoi			
		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 Mach	ine	Major	-		
		5.5.1.8	Equipment in Hoistways & Machine Rooms				
		5.5.1.9	Machinery and Sheave Beams, Supports, and Foundations				
		5.5.1.23	Driving Machines and Sheaves				
		5.5.1.25	Operating Devices and Control Equipment				
	8.7.5.5.8		perating Devices and/or Control Equipment	Major	-		
		5.5.1.8	Equipment in Hoistways & Machine Rooms				
		5.5.1.25	Operating Devices and Control Equipment				
	0.7.5.6	Poofton Flouritaire		Maire			
	8.7.5.6	Rooftop Elevators 5.6.	Rooftop Elevators	Major	-		
	8.7.5.7	Special Purpose Pers	·		see CAN/C	SA B311	
					3CC OAIV	OA 0011	
	8.7.6.1.1	Alterations to Escal Change to componen		mrr			mrr
	0.7.0.1.1	Change to componen	8.6.12.4.1.1 Replacement parts or components	11111			
			8.6.12.4.1.2 Quality of Work				
	8.7.6.1.1	Addition of Componer	•	see 8	3.7.6. <u>1</u>		-
			see applicable <u>8.7.6.1</u> requirements for that device	300			
	8.7.6.1.2 (a)	Relocation of Escalat		New	-		
	, ,	6.1.	Escalators				
	8.7.6.1.2 (b)	Repositioning of Esca	alator	Major			
			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	Safety Zone				
		6.1.3.12	Headroom				

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ດຸ່ວ			Alteration Checklist for Director's Order 296 / 22		Type of Altera		
Conforms to B44 Mark with 'X	B44:19		(see also Guideline 296 / 22)		ration	Replace	ement with
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification Change	Addition	Same	Different Make/Model
Conforms to B44 Mark with 'X'	Number		Part, Section or Requirement				
		Job Reference:			Type of Submiss	sion Required	
		6.1.3.13	Welding				
		6.1.6.9	Signs				
		6.1.7.4.1	Electrical equipment				
	0.7.0.4.0	8.7.6.1.3	Protection of Floor Openings	Minor			
	8.7.6.1.3	Protection of Floor Op 6.1.1.	Protection Required	Minor A	-		
	8.7.6.1.4		and Machinery Spaces Against Fire	Minor A	_		
	0.7.0.1.4	6.1.2.1	Protection Required	WIII IOI A	=		
	8.7.6.1.5	Construction Requirer	·				
	0.7.0.1.0		and test requirements, see 8.10.4.2.2(a)				
	8.7.6.1.5(a)	Angle of Inclination	and toot requirements, ede or or mana(u)	Major	_		
	8.7.6.1.5(b)	Geometry		Major	-		
		6.1.3.2	Geometry	,			
	8.7.6.1.5(c)	Balustrades	· ·	Minor A	Minor A		
	,	6.1.3.3	Balustrades				
		6.1.3.3.1	Construction				
		6.1.3.3.2	Strength				
		6.1.3.3.3	Use of Glass or Plastic				
		6.1.3.3.4	Interior Low Deck				
		6.1.3.3.5	Loaded Gap between Skirt & Step				
		6.1.3.3.6	Skirt Panels				
		6.1.3.3.7	Dynamic Skirt Panels				
		6.1.3.3.8	Dynamic Skirt Panel Loaded Gap				
		6.1.3.3.9	Step/Skirt Performance Index				
		6.1.3.3.10	Skirt Deflector Devices				
		6.1.3.3.11	Guard at ceiling intersection				
		6.1.3.3.12	AntiSlide Devices				
	0.7.6.4.5(4)	6.1.3.3.13	Deck Barricades	Mim	or B		
	8.7.6.1.5(d)	Deflector Devices 6.1.3.3.10	Skirt Deflector Devices	IVIII	IOL B	ſ	nrr
	8.7.6.1.6	Handrails or Handrail		Minor A	_		
	0.7.0.1.0		and test requirements, see 8.10.4.2.2(b)	WIII IOI A	-		
		6.1.3.2.2	Geometry - Handrail				
		6.1.3.4.1	Handrails - Type Required				
		6.1.3.4.2	Extension Beyond Combplate				
		6.1.3.4.3	Guards (hand or finger)				
		6.1.3.4.4	Handrails - Splicing				
		6.1.3.4.6	Handrail Clearance				
		6.1.6.3.12	Handrail Entry Device				
		6.1.6.4	Handrail Speed Monitoring Device				
	[8.7.6.1]★1	★ Addition of Handra		vari	ance	var	iance
			Variance to 6.1.6.9.2				
	[8.7.6.1]★2	★ Addition of Handra		Minor B	Minor A	mrr	Minor A
		2.26.4.2	Electrical equipment shall be listed/certified; labeled/marked				
		8.7.6.1	General requirements or 8.7.6.2 for moving walks				
		8.7.6.1.14	Lighting, Access, and Electrical Work				
	07047	Otam Overtone	anation to the atom system	NA - :			Mina
	8.7.6.1.7		eration to the step system	Major	-	mrr	Minor B
		•	and test requirements, see 8.10.4.2.2(c) Loaded Gap Between Skirt & Step				
		6.1.3.3.5	Steps				
		6.1.3.5 (*)	Entrance and Egress Ends				
		6.1.3.6 (*) 6.1.3.8	Step Wheel Tracks				
		6.1.3.9.4	Step Wheel Hacks				
		6.1.3.10.4	Factor of Safety - Steps				
		6.1.3.11	Chains				
		6.1.6.3.3	Broken Step-Chain Device				
		6.1.6.3.9	Step Upthrust Device				
		6.1.6.3.11	Step Level Device				
		6.1.6.3.14	Step Lateral Displacement Device				
		6.1.6.5	Missing Step Device				
			,				
	8.7.6.1.8	Combplates		Minor A	-		
		For inspection	and test requirements, see 8.10.4.2.2(L)				
				_			

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		Zu Zb	Alteration Checklist for Director's Order 296 / 22	J	Type of Altera		Ŭ
Conforms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ment with
torms B44 k with	Reference		Scope of Alteration - B44 - 2019	Modification			Different
a y X	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ວ ≊	Number	Job Reference:	Tally 60001011 of 110quilloinoin		Type of Submiss	ion Required	
			0 10 1 15 1		Type of Submiss	sion Required	
		6.1.6.3.13	Comb-Step Impact Devices				
	8.7.6.1.9	Trusses and Girders		Major	-		
		For inspection	and test requirements, see 8.10.4.2.2(d)				
		<u>8.7.1.4</u>	Welding				
		<u>8.7.1.5</u>	Design				
		6.1.3.7	Trusses of Girders				
		6.1.3.9.1	Structural Load				
		6.1.3.10.1	Factor of Safety - Trusses and Supporting Structures				
		0.1.0.10.1	radior of carety Traccoc and capporting ciractares				
	8.7.6.1.9	New Escalator into Ex	risting Trusses	New			
	0.7.0.1.9			INCW	-		
			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				
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	8.7.6.1.11	Rated Load and Spee	d	Major			
	0.7.0.1.11			iviajoi	-		
		·	and test requirements, see 8.10.4.2.2(f)				
		6.1.	Escalators				
	8.7.6.1.12	Driving Machine, Moto	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				
			Driving Motor				
		6.1.5.2	•				
		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				
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		6.1.5.3.1	Escalator Driving-Machine Brake				
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		6.1.5.3.2	Main Drive Shaft Brake				
		6.1.6.3.2	Escalator Speed-Monitoring Device				
		6.1.6.3.8	reversal Stop Device				
		6.1.6.3.10	Disconnected Motor Safety Device				
	8.7.6.1.12(c)	Machine Brake		Major	-		
		For inspection	and test requirements, see 8.10.4.2.2(g)				
		6.1.3.9.3	Brake				
		6.1.3.10.2	Factor of Safety - Driving Machine Parts				
		6.1.5.3.1	Escalator Driving-Machine Brake				
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	8.7.6.1.13	Operating and Safety	Devices	Minor A	Minor A		
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		•	and test requirements, see 8.10.4.2.2(h)				
		6.1.6	Operating and Safety Devices (for that device)				
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		6.1.3.3.5	Loaded Gap Between Skirt & Step				
		6.1.3.5.4	Clearance between Steps				
		6.1.3.5.5	Slotting of Steps and Treads				
		6.1.3.5.5	Slotting of Steps and Treads				

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8.7.6.2       Alterations to Moving Walks		8.7.6.1.19		0.11.5	Mir	IOF A	Min	or A
8.7.6.2         Alterations to Moving Walks         mrr         -         mrr           8.7.6.2.1         Change to component parts         mrr         -         mrr           8.6.12.4.1.1 Replacement parts or components 8.6.12.4.1.2 Quality of Work         see 8.7.6.2         -								
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8.6.12.4.1.2 Quality of Work 8.7.6.2.1 Addition of Components or Devices see 8.7.6.2 -			J 12 22p 5.7011	•				
8.7.6.2.1 Addition of Components or Devices see 8.7.6.2 -								
		0.7604	Addition of Comme			760		
see applicable 8.7.6.2 requirements for that device		0.7.0.2.1	Addition of Componer		see	0.7.0.2		-
				see applicable 8.7.6.2 requirements for that device				

0	1	2a 2b	2c	3	4	5	6
			Alteration Checklist for Director's Order 296 / 22		Type of Altera	ation Work	•
Contorms to B44 Mark with 'X'	B44:19		(see also Guideline 296 / 22)	Alte	ration	Replace	ement with
torm B44 k wit	Reference		Scope of Alteration - B44 - 2019	Modification	Addition	Same	Different
ont Iark	Number		Part, Section or Requirement	Change	radition	Carro	Make/Model
ს ≥		Job Reference:			Type of Submiss	sion Required	
	8.7.6.2.2	Relocation of Moving	Walk	New	_		
		6.2.	Moving Walks				
	8.7.6.2.3	Protection of Floor Op		Minor A	_		
		6.2.1.	Protection Required				
	8.7.6.2.4	Protection of Trusses	and Machinery Spaces Against Fire	Minor A	-		
		6.2.2.1	Protection of Supports - Protection Required				
	8.7.6.2.5	Construction Requirer	• • • • • • • • • • • • • • • • • • • •				
			and test requirements, see 8.10.4.2.2(a)				
	8.7.6.2.5(a)	Angle of Inclination		Major	_		
	(=,)	6.2.	Moving Walks				
	8.7.6.2.5(b)	Geometry	g	Major	_		
	011101210(2)	6.2.3.2	Geometry	ajo.			
	8.7.6.2.5(c)	Balustrades		Minor A	Minor A		
	0.1.0.2.0(0)	6.2.3.3	Balustrades	William 7 C	1411110171		
	8.7.6.2.6	Handrails	Balastiaaco	Minor A	_		
	0.7.0.2.0		and test requirements, see 8.10.4.2.2(b)	WIIIOI A	_		
		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			Vor	ance	Vor	ance
	[0.7.0.2] * 1	* Addition of Handra	Variance to 6.1.6.9.2	Vall	ance	Vall	ance
	[8.7.6.2] *2	★ Addition of Handra		Minor B	Minor A	mrr	Minor A
	[0.7.0.2] * 2	2.26.4.2		IVIIIIOI D	WIIIOI A	mrr	WITTOT A
		8.7.6.1	Electrical equipment shall be listed/certified; labeled/marked				
		8.7.6.1.14	General requirements or 8.7.6.2 for moving walks				
		0.7.0.1.14	Lighting, Access, and Electrical Work				
	07007	T O t		NA-t			
	8.7.6.2.7	Treadway System		Major	-		
		·	and test requirements, see 8.10.4.2.2(c)				
		6.2.3.2.3	Geometry - Handrail				
		6.2.3.3.5	Skirtless Balustrade				
		6.2.3.3.6	Skirt Panels				
		6.2.3.5	Pallet-Type Treadway				
		6.2.3.6(*)	Belt-Type Treadway				
		6.2.3.8	Entrance and Egress Ends				
		6.2.3.9	Supporting Structure				
		6.2.3.10.4	Pallet				
		6.2.3.11.4	Pallet Factor of Safety				
		6.2.3.11.5	Belt Factor of Safety				
		6.2.3.12	Chains				
		6.2.6.3.3	Broken Treadway Device				
	8.7.6.2.8	Combplates		Minor A	-		
		·	and test requirements, see 8.10.4.2.2(L)				
		6.2.3.8	Entrance and Egress Ends				
		6.2.6.3.11	Comb-Pallet Impact Devices				
	8.7.6.2.9	Trusses and Girders		Major	-		
			and test requirements, see 8.10.4.2.2(d)				
		<u>8.7.1.4</u>	Welding				
		<u>8.7.1.5</u>	Design				
		6.2.3.9	Supporting Structure				
		6.2.3.10.1	Structural Load				
		6.2.3.11.1	Trusses & Supports based on max static load				
	8.7.6.2.9	New Moving Walk into		New	-		
		·	and test requirements, see 8.10.4.2.2(d)				
		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	Trusses & Supports based on max static load				

0 % - Indiction	lodification Change	Type of Alter		ment with Different
B44:19 (see also Guideline 296 / 22)  Reference Scope of Alteration - B44 - 2019  Number Part, Section or Requirement	lodification Change			1
Reference Scope of Alteration - B44 - 2019  Number Part, Section or Requirement  Ich Reference:	Change	Addition	Same	Different
Part, Section or Requirement				
Ioh Reference:	Т			Make/Model
OOD Reference:		Type of Submiss	sion Required	
<u>8.7.1.4</u> Welding				
8.7.6.2.11 Rated Load and Speed	Major	-		
For inspection and test requirements, see 8.10.4.2.2(f)	·			
6.2. Moving Walks				
8.7.6.2.12 Driving Machine, Motor, and Brake	Major	-		
	Major	-		
For inspection and test requirements, see 8.10.4.2.2(g)	·			
6.2.3.10.2 Machinery Load				
6.2.3.11.2 Factor of Safety for Drive Machine Parts				
6.2.3.11.3 Factor of Safety for Power Transmission members				
6.2.3.14 V-Belt Drives				
6.2.3.15 Headroom				
6.2.4 Rated Speed				
6.2.5.1 Connection Between Driving Machine and Main Drive Shaft				
6.2.5.3.1 Moving Walk Driving-Machine Brakes				
6.2.5.3.2 Main Drive Shaft Brake				
6.2.6.3.4 Broken Drive-Chain Device				
6.2.6.3.8 Disconnected Motor Safety Device				
8.7.6.2.12(b) Drive Motor	Major	-		
For inspection and test requirements, see 8.10.4.2.2(g)	,			
6.2.3.10.2 Machinery Load				
6.2.3.11.2 Factor of Safety for Drive Machine Parts				
6.2.3.11.3 Factor of Safety for Power Transmission members				
6.2.4 Rated Speed				
6.2.5.2 Driving Motor				
6.2.5.3.1 Moving Walk Driving-Machine Brakes				
6.2.6.3.2 Speed Governor				
6.2.6.3.7 Reversal Stop Device				
6.2.6.3.8 Disconnected Motor Safety Device				
0.2.0.0.0 Disconnected Motor Galety Device				
8.7.6.2.12(c) Machine Brake	Major	_		
For inspection and test requirements, see 8.10.4.2.2(g)	Major			
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				
0.2.0.0.2 Wall Blive Glaft Blake				
8.7.6.2.13 Operating and Safety Devices	Minor A	Minor A		
For inspection and test requirements, see 8.10.4.2.2(h)	WIII IOI A	WILLIOI A		
6.2.6 Operating and Safety Devices (for that device)				
Operating and datety bevices (for that device)				
8.7.6.2.14 Lighting, Access, and Electrical Work	Minor B	Minor B		
For inspection and test requirements, see 8.10.4.2.2(M)	THE D	ם וסוווויו		
6.2.7 Lighting, Access, and Electrical Work				
U.2.7 Lighting, Access, and Liectifical Work				
8.7.6.2.15 Controller - Installed as part of an alteration	Major	_		_
For inspection and test requirements, see 8.10.4.2.2(i)	Major	_		
6.2.6.10 Control and Operating Circuits				
6.2.6.11 Electrically Power Safety Devices				
6.2.6.12 Installation of Capacitors To Make EPD's Ineffective				
6.2.6.13 Completion of Maintenance Circuits				
6.2.6.14 Moving Walk Manual Reset				
· · · · · · · · · · · · · · · · · · ·				
, , , , , , , , , , , , , , , , , , ,				
6.2.7.4 Electrical equipment and wiring				
[8.7.6.2] + Controller Penlacement of			N 4	nior
[8.7.6.2]★3 ★ Controller - Replacement of	-	-	IVI	ajor
8.7.6.1.16 Controller				
[9.7.6.2]+4 Polooption of Controllar (if control wining discounced discounced)	Maior			
	Major			
2.8.2 Electrical Equipment and Wiring				

0	1	22 2h	20	3	1	5	6
0	1	2a 2b	Alteration Checklist for Director's Order 296 / 22	J	Type of Altera	ation Work	Ö
s ×	B44:19		(see also Guideline 296 / 22)	Alte	ration		ment with
Conforms to B44 Mark with 'X	Deference		Scope of Alteration - B44 - 2019	Modification			Different
ntor B4 rk v	Reference		Part, Section or Requirement	Change	Addition	Same	Make/Model
Co Ma	Number	Joh Deference	Turt, occion of requirement		Turns of Culturains	ion Dominad	
		Job Reference:			Type of Submiss	sion Required	
			Electrical testing as per the original design submission tests				
		i					
	[8.7.6.2] <b>★5</b>	★ Addition of Sof	ft 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				
			Redundancy to be checked				
		6.1.6.10.2	•				
		6.1.6.10.3	Motors with Static control				
		for control systems bu					
		6.1.7.4	Electrical Equipment and Wiring				
	[8.7.6.2] <b>★6</b>	★ Addition 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	Variable-Frequency D	Drive Motor		Minor A		_
	0.7.0.2.10		and test requirements, see 8.10.4.2.2(O)		WILLOU A		
		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				
$L^{}$							
	8.7.6.2.17	Addition of Speed Val	riance	-	Minor A		-
		For inspection	and test requirements, see 8.10.4.2.2(j)				
		6.2.4.1.2	Variation of the escalator speed after startup				
		V.= =	Tanadan ar and addatator apada artor atantap				
	8.7.6.2.18	Entrance and Egress			Minor A		
	0.7.0.2.10			-	WIIIOI A		-
		6.2.3.8.1	Combplates				
		6.2.3.8.2	Distinction Between Comb and Treadway				
		6.2.3.8.3	Adjacent Floor Surfaces				
		6.2.3.8.4	Safety Zone				
	8.7.6.2.19	Skirt Panels		Min	or A	Min	or A
		6.1.3.3.6(d)	Skirt Deflection Test and Marking/Labeling.				
		8.3.15	Skirt Deflection Test				
		0.0.10	Skirt Deliection Test				
	0.7.7	Alteretions to Dumb	nucitors and Material Lifts				
	8.7.7		owaiters and Material Lifts	<b></b>			
	8.7.7.1		terial Lifts Without Automatic Transfer Devices	Major	-		
		Alteration to a Power	and Hand Dumbwaiters	Major	-		
		7.1.	Power and Hand Dumbwaiters				
		7.2.	Electric and Hand Dumbwaiters				
		7.3.	Hydraulic Dumbwaiters				
		Alteration to a Materia	•	Major	-		
		7.4.	Material Lifts				
	CVD 3 O 3	Lock and Contact upg		Minor A	Minor A		
	CAD 3.8.2		grade to interiorit	WILLOL A	WILLION A		
		CAD 3.9.2	Heighteen Deep Legling Deedees				
		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 Loa	ad	Major	-		
		7.2.(*)	Electric and Hand Dumbwaiters w/o Transfer Devices				
		7.3.(*)	Hydraulic Dumbwaiters w/o Transfer Devices				
		7.4.	Material Lifts				
<del>                                     </del>		7.4. 7.5.	Electric Material Lifts				
	0.7.7.0	7.6.	Hydraulic Material Lifts	N 4 - 1			
	8.7.7.2	Addition of Automatic		Major	-		
		Part 2	Electric Elevators				
		Part 3	Hydraulic Elevators				
$L^{}$	8.7.7.3.1	Material Lifts and Dur	nbwaiters With Automatic Transfer Devices	N/A	N/A		
			exempt if requirements of CAD 2.3(j) are met				
	8.7.7.3.2	Material Lifts and Dur	nbwaiters - 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	7.4. to 7.6 Material Lifts altered t	Material Lifts w/o Transfer Devices	New	_		

		0				_	
0	1	2a 2b	Alteration Checklist for Director's Order 296 / 22	3	Type of Alter	5 ation Work	6
ુ સ્	B44:19		(see also Guideline 296 / 22)	Alte	ration		ement with
conforms to B44 Mark with 'X'	Reference		Scope of Alteration - B44 - 2019	Modification			Different
mg Y	Number		Part, Section or Requirement	Change	Addition	Same	Make/Model
ပိ	Number	Job Reference:	,	-	Type of Submiss	sion Required	
		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' +				
			+ excluding requirements related to in-car operating devices &				
			Riders				
	CAD 3.9.2	Lock and Contact upo	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 upo	grade to Interlock	Minor A	Minor A		
		CAD 3.9.2					
		7.4.14*	Hoistway Door Locking Devices				