What's New in [2013], [2016], [2019]

ASME A17.1-2013/CSA B44-13 (Revision of ASME A17.1-2010/CSA B44-10)

Safety Code for Elevators and Escalators

Includes Requirements for Elevators, Escalators, Dumbwaiters, Moving Walks, Material Lifts, and Dumbwaiters With Automatic Transfer Devices

AN AMERICAN NATIONAL STANDARD





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ASME 17.1-2016/CSA B44-16 (Revision of ASME 17.1-2013/CSA B44-13)

Safety Code for Elevators and Escalators

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ASME A17.1-2019/CSA B44:19 (Revision of ASMEA17.1-2016/CSA B44-16)

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			What's New in A	ISME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19	
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viii–xii	ASME Foreword	2013		This twentieth edition of the Code contains well over one hundred revisions New requirements have been added to address new types of elevator equipment specifically wind turbine elevators and outside emergency elevators. In addition requirements have been added to address a new feature called Elevator Evacuation Operation (EEO) Besides the above, several major changes include the following: (a) extensive update to the seismic requirements	Forward Highlights: WTE added, removed in 2019 code.
xxi–xxii i	ASME Preface	2013	Revised Revised	(b) Updated requirements related to the maintenance control program	OEO elevator added New 8.6 structure (MCP)
xxiv	CSA Preface	2013	Neviseu	ASME	Extensive seismic change

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	PART 1	Gener	al		
1	1.1.1	2013	Equipment Covered by This Code In subpara. (c), last sentence revised (c) hoisting and lowering mechanisms equipped with a car that serves two or more landings and is restricted to the carrying of material by its limited size or limited access to the car. This equipment includes, but is not limited to dumbwaiters and material lifts; it does not include vertical reciprocating conveyors (see Section 1.3).	(c), last sentence revised, clarify A17.1 does not include vertical reciprocating conveyors	revised
2	1.1.4	2013	Revised The requirements of this edition and subsequent addenda to the Code are effective as of the date noted on the Summary of Changes page of this document with the exception of 8.10.1.1.3 and 8.11.1.1 that shall be effective immediately The authority having jurisdiction will establish the effective date for their local regulations.	added the exception of 8.10.1.1.3	revised
	1.2.2	2013	Title editorially revised	ASME A17.1/CSA B44	
2, 5, 6–8, 10, 13–18	Section 1.3		DEFINITIONS (1) Added Definition of		
	Section 1.3	2013	accredited certifying organization ;	to define	new
	Section 1.3		accrediting body; an independent internationally or nationally recognized organization that accredits organizations concerned with personnel certification.	to define	new
	Section 1.3		base, building; the level at which the horizontal seismic ground motions are considered to be imparted to the structure.	to define	new
	Section 1.3	2013	control, mechanical-hydraulic; a motion control in which acceleration, speed, retardation, and stopping are governed by varying the fluid flow to/from the hydraulic jack by direct mechanical operation of the valves by shipper rope or operating lever device.	add a definition to determine what a change to motion control means for a hydraulic elevator	new
	Section 1.3	2013	conveyor, vertical reciprocating (VRC) ;	to define VRC	new
	Section 1.3		driving machine, traction climbing ;	To provide a differentiation and a definition of a new type of driving machine commonly used in wind turbine tower elevators	new
	Section 1.3	2013	elevator, outside emergency; elevator, outside emergency: an elevator operating on the outside of a building having up to five compartments that is operated only by emergency personnel and used solely for emergency evacuation of building occupants and transportation of a limited number of emergency responders involved in the evacuation.	define device included in A17.1	new, Note the 2022 Edition of code OEE has been renamed PRS, Platform Rescue System.

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	Section 1.3	2013	elevator discharge level; the floor, served by elevators, that occupants will use to leave the building during an emergency evacuation.	to clarify where the elevators take building occupants during OEO, Occupant Emergency Evacuation	as determined the by building or fire authority
	Section 1.3	2013	elevator, wind turbine tower ;	To add the common name	new
	Section 1.3	2013	guide rope fixes; wire guide rope attachment hardware securing the guiding system to the structure.	To provide a definition considering the common term of the art.	new
	Section 1.3		guiding means, ladder; the guide system where the tower ladder is used to guide the car within the travel path.	to define	new
	Section 1.3	2013	<i>hard, copy</i> ; a written record or log of all items specified in the maintenance records.		new
	Section 1.3	2013	maintenance control Program (MCP); a documented set of maintenance tasks, maintenance procedures, examinations, and tests to ensure that equipment is maintained in compliance with the requirements of 8.6.	to clarify terms in proposed revisions regarding the MCP, maintenance records, and related documentation as well as provide clarification for the proposed	new
	Section 1.3	2013	<i>maintenance interval</i> ; the specified period between the occurrences of a specific maintenance task.	code revisions.	new
	Section 1.3	2013	maintenance procedure; an instruction or sequence of instructions for performing a specific task(s).		new
	Section 1.3	2013	maintenance task; a maintenance activity (work) that needs to be accomplished.		new
	Section 1.3	2013	Occupant Evacuation Operation; the operation of an elevator system for occupant evacuation under emergency conditions.	to help readers of the code understand the purpose of this operation (OEO) is for occupant evacuation in emergencies	new
	Section 1.3	2013	operation, automatic call ;	To provide a definition of send operation typically found on Wind Turbine Elevators.	new
	Section 1.3	2013	operation, automatic send ;	To provide a definition of send operation typically found on Wind Turbine Elevators.	new
	Section 1.3	2013	pallet band; the complete assembly formed by all of the pallets and their interconnecting means.	to add a definition for the terms "step band" and "pallet band" based on Inquiry 10-1815. The term pallet band appears in requirement 6.2.7.3.4 and is also undefined.	new
	Section 1.3	2013	platform, landing ;	To distinguish the usage of the term "platform" when referring to wind turbine towers from the elevator use of the term.	new
	Section 1.3	2013	records, electronic; a viewable computer-generated record or log of all items specified in the maintenance records.	to clarify terms in proposed revisions regarding the MCP	new

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	Section 1.3	2012	seal, adjustment; a device or means to prevent adjustment of a component that must be broken to change the adjustment. Sealing includes a method to document the date and name of the person and/or firm applying the seal or other means to acquire this information.	To provide definition of "adjustment seal", used for determining when the adjustment means have been tampered with for components that are required to be sealed.	new Seals must be non reusable. Paint is not acceptable.		
	Section 1.3	2013	SIL rated; listed/certified to a safety integrity level that is in accordance with the applicable requirements of IEC 61508-2 and IEC 61508-3		new		
	Section 1.3	2013	step band ;	to add a definition for the terms "step band" and "pallet band" based on Inquiry 10-1815. The term pallet band appears in requirement 6.2.7.3.4 and is also undefined.	new		
	Section 1.3		sway control guide ; a device attached to the car or the counterweight used to limit the sway of suspension means, compensating means, traveling cables, etc., to prevent tangling or snagging on other hoistway components.	to define	new		
	Section 1.3		sway control guide suspension means; tensile components that support, raise, and lower sway control guides for electric traction elevators.	to define	new		
	Section 1.3	2013	tail line ;	To provide a definition considering the common term of the art.	new		
	Section 1.3	2013	travel path	To provide a definition	new		
		2013	(2) revised Definition of				
		2013	control, electrohydraulic;	to determine what a change to motion control means for a hydraulic elevator	revised		
		2013	electrical/electronic/programmable electric system (E/E/PES);	clarify	revised		
	Section 1.3	2013	manual reset, escalator and moving walk; a means, not accessible to the general public, requiring personal intervention by an authorized person or authorized personnel, requiring on-site intervention by elevator personnel prior to restarting the escalator or moving walk.	onsite intervention required by contractor	revised		
		2013	material lift; an elevator designed or modified for the purpose of transporting materials that are manually or automatically loaded or unloaded and are not a vertical reciprocating conveyor (see 1.3). Material lifts without an automatic transfer device are Type A or Type B. On Type A material lifts no persons are permitted to ride. On Type B material lifts authorized personnel are permitted to ride.	To define a Material Lift and differentiate material lifts from vertical reciprocating conveyors as unique and distinct devices covered by different safety provisions by use of the term elevator			
		2013	operation, group automatic;	To recognize other possible devices and supervisory (dispatching) systems used in group automatic operation	revised		
		2013	safety integral level (SIL);	See IEC 61508	revised		
			terminal stopping device, final;	remove requirements from the definition	revised		
		2013	terminal stopping device, normal;	remove requirements from the definition	revised		
		2013	unlocking zone;	clarify	revised		

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	PART 2 2.2 Pits				
23	2.2.6.2		Stop Switch in Pits Sentence added to end of paragraph Where more than one switch is provided, they shall be wired in series.	Multiple pit stop switches to be wired in series.	[OEM][E][I] - verifiable on prints and onsite
	2.2.6.3	2013	Moved to 2.2.6.2	2.2.6.3 deleted and moved to 2.2.6.2	
	2.3 Locati	ion Aı	nd Guarding of Counterweights		
23	2.3.2.1	2013	Counterweight Guards Subparagraph (a) revisedno space greater than 500 mm (20 in.) between any adjacent combination of compensation means, suspension means, counterweight rails and guard(s) that blocks the access to the counterweight runway.	Rationale: To recognize that suspension means as well as compensating ropes (chains) can alert personnel of the presence of the counterweight runway.	[I]-spacing can be verified in the field
	2.4 Vertic	al Cle	arances And Runbys For Cars And Counterweights		
24	2.4.1.6		Bottom Car Clearances Revised in its entirety	(a) conform to the requirements of ANSI Z535.4 or CAN/CSA-Z321 (see Part 9) (b) be made of durable material and shall be securely fastened	[I]- can be field verifiable signage details are provided
26	2.4.7.2		Top of Car Clearances Revised in its entirety	(a) conform to the requirements of ANSI Z535.4 or CAN/CSA-Z321 (see Part 9) (b) be made of durable material and shall be securely fastened	[I]- can be field verifiable signage details are provided
	2.7 Machi	nery	Spaces, Machine Rooms, Control Spaces, and Control Rooms		
28	2.7.3.1.3	2013	Added: Access to other locations within the building or access to machinery and	Rationale: To limit the access to machine rooms and related spaces by persons that do not need to access those rooms and spaces except when access is needed for equipment directly related to the elevator. This reduces the frequency of exposure to the hazards related to elevator equipment by other persons. These hazards could include rotating machinery and high voltage.	[I]-field verifiable Clarification to say what we always understood - no access to other spaces via the machine room.
	2.7.3.2.2		Passage Across Roofs Revised	Passage over roof requires a railing conforming to 2.10.2 Rationale: To provide safe passage under all environmental conditions. To add strength requirements to the railing.	[I]- field assessable. Supporting documentation may be required where questionable
32	2.7.5.3.2	2013	Editorially revised	typo fix	
32	2.7.5.3.5	2013	Revised Where the access to a working platform that is in the line of movement of the car or counterweight is not through the elevator landing doors, but through an access panel or door in the hoistway, the access panel or door shall meet the requirements of $2.11.1.2(b)$, (d) , and $(e) - (i)$.	Revision of the requirement to specify an electric contact in lieu of an electromechanical device. Clarification of intent to permit a lock and contact.	[E]- electrical print shows contact [I]-field verifiable re: presence of an electrical contact

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	2	2.10 Guar	ding	of Equipment and Standard Railings				
39)	2.10.2.1		Revised The top rail shall have a smooth surface, and the upper surface shall be located at a vertical height of not less than 1070 mm (42 in.) and not more than 1095 mm (43 in) from the working surface.	conducted to determine a safe tolerance value which will satisfy the intent of the various requirements. The end result is a safe and adequate tolerance for the Top Rail of the Standard Railing.	tolerances should be allowed) [OEM] = awareness [Note: EIFESH recognizes +/-		

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	2.11 Prote	ection	n of Hoistway Openings		
39	2.11.1.2	2013	Emergency Doors in Blind Hoistways Subparagraph (e) revised Regarding Emergency Doors in Blind Hoistways: Lock and contact requirement have been revised to read: 2.11.1.2 (e) It shall be provided with an electromechanical device electric contact that will prevent the operation of the driving machine unless the door is closed and locked (see 2.26.2.25) self closing and self locking are still applicable	Regarding Emergency Doors in Blind Hoistways: Lock and contact requirement have been revised to electric contact	[I] field verifiable [OEM] design req'mt
40	2.11.5	2013	Projection of Entrances and Other Equipment Beyond the Landing Sills Subparagraph (a) revised 2.11.5 Projection of Entrances and Other Equipment Beyond the Landing Sills Entrances and equipment shall not project into an elevator hoistway beyond the line of the landing sill, except for (a) equipment required for interlocking, indicator and signal devices, and door operating devices, door guiding devices, and door retaining devices	Rationale: To recognize that door guiding devices and retaining devices can project beyond the line of the landing sill. Eg TKE freedom sill	applicable to sill designs with no top sill grooves for guiding or retention. [OEM] permission
40	2.11.6.3	2013	Opening of Hoistway Doors Revised in its entirety 2.11.6.3 Egress from the interior of the car to any elevator landing by means of the car and hoistway doors shall be unrestricted once the car and hoistway doors are open. Additional doors or devices, which are not part of nor function with the elevator, but are provided in lieu of an enclosed elevator lobby in order to guard against the migration of smoke in or out of the hoistway shall comply with the following: (a) The building code. (b) The additional door or device, in any position, shall not interfere with the function and operation of the elevator. (c) The additional door or device shall not interfere with the fire resistance rating and operation of the hoistway entrance. Direct or mechanical attachment (i.e. welding, holes, bolts or rivets) shall not be made to hoistway doors or frames, unless the additional door or device and the hoistway elevator entrance are listed as a complete assembly by a certifying organization.	Rationale: To provide requirements, when permitted by the Building Code, for	doors Smoke doors should not lock closed (entrapment) if gap between doors >125mm (5 in.) [Arch] permission

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40	2.11.6.3	2013	(d) Additional doors or devices when in the closed position shall not prevent firefighters from visually observing the elevator landing (lobby) when the elevator hoistway door is no more than one quarter open. (e) Additional doors or devices shall be permitted to be deployed only at those hoistway openings of elevators where fire alarm initiating devices used to initiate Phase I Emergency Recall Operation associated with that elevator have been activated. NOTE: It is recommended that all additional doors or devices deployed in front of hoistway doors shall be cleared (returned to open/ standby position) by authorized or emergency personnel prior to removing the elevator from Phase I Emergency Recall Operation and returning to normal operation. It is recommended in the case of an unintended deployment, authorized personnel should return doors to the open or standby position.		[I] FF to be able to see into lobby with additional door closed. [I][OEM] Additional Doors only triggered at Lobby where FAID's have been activated
42	2.11.10.1.4	2013	Landing-Sill Guards Added 2.11.10.1 Landing Sill Guards 2.11.10.1.4 A horizontal door guiding groove with a maximum width of 10 mm (0.375 in.) shall be permitted at the transition of the Landing Sill Guard and the Landing Sill, provided the following requirements are met, (a) door power pre-opening in accordance with requirement 2.13.2.2.2 shall not be permitted, (b) leveling/re-leveling shall be initiated before vertical exposure of the groove is revealed, (c) where exposure to the groove is revealed the car shall not re-level with open doors and (d) edges forming the groove shall be configured to prevent hazards	To recognize designs like TKE freedom sill. Rationale: 10 mm (3/8 in.) is the allowable gap between the door and the sill. (see 2.11.11.5.2(d)). Sight guards are allowed to be 12 mm above the sill which is a gap that exists today. Prohibiting pre-door opening and preventing re-leveling up before the car sill surface reaches the groove assures that the door guiding groove is not exposed to users in the car.	
42	2.11.11.1	2013	Landing Sills Subparagraph (d) added 2.11.11.1 Landing Sills. Landing sills shall (d) be permitted to include the corresponding member of a bottom guiding means (see 2.11.11.5.7 and 2.11.11.6).	Rationale: To clarify that a sill/sill structure is permitted as a guiding component. When a sill/sill structure is used as a guiding component then they must meet the strength requirement of 2.11.11.5.7	[OEM] design permission
47	<u>2.11.19.3</u>	2013	Gasketing of Hoistway Entrances Revised 2.11.19.3 Each section of the gasketing material shall be labeled. Each label shall bear the name of the manufacturer, certifying agency and a statement indicating conformance with 2.11.19.1 and 2.11.19.2. The label shall be visible after installation	Rationale: To require certification of the basic types of entrances in 2.11.2 with gasketing material. To require certifying agency identification on the label.	OEM design requirement. Labelling to be visible in the field. Can be field verifiable.

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	2.12 Hois	tway	Door Locking Devices and Closed Detection Means, and Hoistwa	y Access Switches	
49	2.12.4.1	2013	Listing/Certification Door Locking Devices and Door or Gate Electric Contacts Subparagraph (b) editorially revised	Rationale: Cross reference corrected	
50	2.12.4.3	2013	Subparagraph (c) editorially revised	editorial	
50	2.12.5	2013	2.12.5 Restricted Opening of Hoistway or Car Doors Deleted; material revised and moved to 2.14.5.7 2.12.5 2.14.5.7 Restricted Opening of Hoistway or Car Doors Car doors of passenger elevators shall be provided with a car door interlock conforming to 2.14.4.2 or shall conform to 2.14.5.7.1 through 2.14.5.7.5.	Rationale: Move requirements into the section pertaining to car doors since the revised requirements no longer pertain to hoistway doors. Permitting the opening of car doors exposes passengers to hazards in the hoistway. A means to restrict the opening of car doors, or using a car door interlock, is the safest way to protect passengers from the hoistway hazards.	[OEM][I] Hoistway doors are no longer opening restricted. Only car doors can be restricted. See 2.14 for Car door restrictor
50	<u>2.12.7.2.1</u>	2013	Hoistway Access Switches - Location and Design Revised in its entirety 2.12.7 Hoistway Access Switches The switch shall be labeled "ACCESS" and shall be a three-position switch, labeled "UP", "OFF", and "DOWN", (in that order), with the "OFF" position as the center position. The switch shall be rotated clockwise to go from the "UP", to "OFF" to "DOWN" positions.	Clearly define requirements for switch labelling.	OEM design requirements. Can be field verifiable.
50	2.12.7.2.3	2013	2.12.7.2.3 The electric contacts in the switch shall be: a) use contacts that are positively opened mechanically; their openings shall not be solely dependent on springs or b) be SIL Rated with a SIL equal to or greater than the SIL indicated for the applicable device shown in Table 2.26.4.3.2.	Include SIL language consistent with table 2.26.4.3.2	[OEM] design requirement
50	2.12.7.3	2013	Hoistway Access Switches - Operating Requirements Revised in its entirety	Hoistway access control, operation and marking is clarified.	

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	2.13 Pow	er Op	eration of Hoistway Doors And Car Doors		
52	<u>2.13.2.1.1</u>	2013	Power Opening of Car Doors or Gates Revised Power opening shall occur only at the landing where the car is stopping, or is leveling, or at rest, and shall start only when the car is within the landing unlocking zone where an automatic car-leveling device is provided, except that on freight elevators with vertically sliding doors and static control, power shall not be applied to open car doors until the car is within 300 mm (12 in.) of the landing.		OEM design requirement
55	2.13.3.4.9	2013	be checked to assure that it the device is capable of sensing the defined objects and sending the appropriate signal is sent to the operation control that initiates the starting, stopping, and direction of motion of the door(s) (see 1.3). If the device(s) is incapable of sensing the defined object or sending the appropriate signal, power closing of the door(s) or gates(s) shall be rendered inoperative.	Rationale: Editorial clarifications: 1) Signal is to be sent to the control that initiates the starting, stopping, and direction of motion of the door(s). This control may or may not be included in the operation control portion of the control system. 2) The term "device(s)" agrees with language in referenced requirements. The term "detection means" does not. 3) Other grammatical corrections.	editorial clarification of requirement
60	2.14 Car I		Material for Car Enclosures, Enclosure Linings, and Floor Coverings Subparagraphs (a) and (b) revised (2) smoke development classification of 0 to 450 (b) floor surfaces shall have a flame spread rating of 0 to 300, with a smoke development classification of 0 to 450, based on the test conducted in accordance with the requirements of CAN/ULC-S102.2	Rationale: Revised to coordinate with changes in the 2010 edition of NBCC.	Was adopted in CAD 2010. OEM design requirement. Confirmed on design submission.
60	2.14.2.1.2	2013	Subparagraph (c) deleted	Rationale: Revised to coordinate with changes in the 2010 edition of NBCC.	
64	<u>2.14.5.7</u>	2013	Restricted Opening of Hoistway or Car Doors Revised. Includes material from 2.12.5. 2.14.5.7 Restricted Opening of Car Doors. Hoistway and car Car doors of passenger elevators shall be provided with a car door interlock conforming to 2.14.4.2 or shall conform to 2.12.5.1 2.14.5.7.1 through 2.12.5.3 2.14.5.7.5. NOTE (2.12.52.14.5.7): See also 2.12.1 and Appendix B, Unlocking Zone.	Rationale: Permitting the opening of car doors exposes passengers to hazards in the hoistway. A means to restrict the opening of car doors, or using a car door interlock, is the safest way to protect passengers from the hoistway hazards. Move requirements into the section pertaining to car doors since the revised requirements no longer pertain to hoistway doors. Note that the unlocking zone for passengers elevators has been reduced to 175mm (7") from previous 450mm (18")	New location in the code book for door restrictor requirement. (from 2.12 to 2.14) Restricted opening is now only applicable for CAR DOORS. No longer applicable to the hoistway door.

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64	<u>2.14.5.7.1</u>	2013	Revised from 2.15.5.1 When a car is outside the unlocking zone, the hoistway doors or car doors shall be so arranged that when in the closed position they shall be restricted from opening hoistway doors or car doors more than 100 mm (4 in.) from inside the car.	,	[I] - restrictor and operation is field verifiable
64	2.14.5.7.2	2013	Revised from 2.12.5.2 When the car doors are so arranged that they cannot be opened when the car isoutside the unlocking zone, the car doors shall be openable from outside the car without the use of a special tool(s).	Rationale: Update and clarification to agree with requirements in 2.14.5.7.	
64	<u>2.14.5.7.3</u>	2013	Revised from 2.12.5.3 The doors shall be openable from within the car (see 2.14.5.87) when the car is within the unlocking zone, except as specified in 2.14.5.7.4(b)(i).	Rationale: Update to agree with requirements in 2.14.5.7.4(b) and re-numbered 2.14.5.8.	[I] Field confirmation that unlocking zone for passenger elevators is now 175mm (7") o less. Refer to Appendix B.
64	2.14.5.7.4	2013	New - electrical power door restrictor If the means used to restrict car door opening requires electrical power for its functioning, it shall comply with 2.14.5.7.4(a) through 2.14.5.7.4(d). (a) the means shall not use electrical power to maintain restricted opening of the car door in accordance with 2.14.5.7.1. (b) The means shall operate in accordance with 2.14.5.7.1 and 2.14.5.7.3 and the following: (i) an alternate power source shall be provided which shall permit the means to operate for not less than one (1) hour upon loss of normal power; (ii) the alternate power source shall be: (a) monitored and when it is detected that there is insufficient capacity to operate the means for not less than one(1) hour, an audible signal conforming to 2.14.5.7.4(d) shall operate, and; (b) provided with readily visible information that indicates the expiration date of the alternate power source in lettering not less than 5 mm (0.25 in.) high. (c) on automatic operation, the portion of the means dependent on power shall be monitored and when it is detected that it has failed to operate in accordance with 2.14.5.7.1, an audible signal conforming to 2.14.5.7.4(d) shall operate. (d) The audible signal required by 2.14.5.7.4(b)(ii)(a) or 2.14.5.7.4(c) shall be at least 10 dBA above ambient, not exceeding 80 dBA, measured inside the car.	The specification of one hour is sufficient time for the restricting means to initiate unrestricting in the unlocking zone. One hour is also sufficient in the case where power is required to initiate restriction, including when power is lost and the car is moving from inside the unlocking zone to outside the unlocking zone. The use of power to initiate but not maintain a function is permitted in the code. See 2.7.5.2.1(b)(6).	electronic restrictor requires

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64	<u>2.14.5.7.5</u>	2013	The means to restrict door opening shall comply with 2.14.5.7.1 when subjected to a force of 1 000 N (225 lbf) applied in the opening direction of the door and at a location anywhere along the leading edge of the door.	Rationale: Require similar forces for means used to restrict car doors as those required for door interlocks in 8.3.3.4.8.	OEM design requirement for strength of door restrictor
64	<u>2.14.5.8</u>	2013	Manual Opening of Car Doors 2.14.5.7 renumber as 2.7.5.8 and revised: Car doors shall be so arranged that when the car is stopped within the unlocking zone (see 2.12.5.32.14.5.7.3) and power to the door operator is cut off, they and the mechanically related hoistway door, if any, shall be movable by hand from inside the car except as specified in 2.14.5.7.4(b)(1). The force required at the edge of sliding doors to move them shall not exceed 330 N (75 lbf).	Rationale: Update to agree with requirements in 2.14.5.7.4(b).	
64	<u>2.14.5.8</u>	2013	Original 2.14.5.8 through 2.14.5.9.4 redesignated as 2.14.5.9 through 2.14.5.10.4, respectively		
	2.15 Car I	-rame	es and Platforms		
			Guiding Members Means 2.15.2.1 Car frames shall be guided on each guide rail by upper and lower guiding members attached to the frame. Retention means shall be provided to prevent the car from being displaced by more than 13 mm (0.5 in.) from its normal running position should any part of the guiding means fail, excluding the guiding member base and its attachment to the frame. The retention means shall be permitted to be integral with the base. Guiding means shall be designed to withstand the forces imposed during normal operation of the elevator, loading and unloading, emergency stopping, and the application of safeties.	Rationale: The proposed change improves the safety of the guiding means by requiring a minimum factor of safety while eliminating language that is overly prescriptive. To prevent displacements greater than 13 mm (0.5 in.) which could occur on sliding members when gibs are lost or on roller guides when a roller fails.	[I] - Requirement for Auxiliary retaining means rewritten. Auxiliary retainers no longer required - however factor of safety of retention means not to be less than 5.
66	2.15.2	2013	 2.15.2.2 Means shall be provided to prevent the car from being displaced by more than 13 mm (0.5 in.) from its normal running position. This protection shall be provided by either: (a) a guiding means wherein no failure or wear of the guiding member shall allow the car to be displaced more than 13 mm (0.5 in.) from its normal running position; or (b) a retention means which shall be permitted to be integral with the guiding means. 		
			2.15.2.3 All components of the means required to limit displacement in accordance with 2.15.2.2 shall have minimum factor of safety of 5.		

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68	2.15.9.2	2013	Platform Guards (Aprons) First paragraph and subpara. (b) revised: The guard plate shall have a straight vertical face, extending below the floor surface of the platform. A horizontal door guiding groove is permitted below the floor surface for door operating devices, door guiding devices, and door retaining devices in accordance with 2.15.9.5. The guard plate shall conform to one of the following: (b) where the elevator is not required to conform to 2.19.2.2(b) the depth of the leveling zone or truck zone, where provided, plus 75 mm (3 in.), but in no case less than 525 mm (21 in.) from the floor surface.	Rationale: To have requirements for platform guards that are consistent with landing sill guards	[OEM] Permission. [I] fyi. Car apron may have groove to allow guiding means. (eg freedom sill)
	2.15.9.5	2013	Added: A horizontal door guiding groove with a maximum width of 10 mm (0.375 in.) shall be permitted at the transition of the Car Sill Guard and the Car Sill, in accordance with the following requirements, (a) door power pre-opening in accordance with requirement 2.13.2.2.2 shall not be permitted, (b) leveling/re-leveling shall be initiated before vertical exposure of the groove is revealed, and (c) where exposure to the gap is revealed the car shall not re-level with open doors and (d) edges forming the gap shall be configured to prevent hazards	Rationale: To have requirements for platform guards that are consistent with landing sill guards	[OEM] design permission for car sills without grooves no relevel permitted if groove is revealed.
70	2.15.16.1	2013	Hinged Platform Sills Revised in its entirety: Hinged platform sills shall be provided with electric contacts conforming to 2.12.5 the following requirements that will prevent operation of the elevator by the normal operating device unless the hinged sill is within 50 mm (2 in.) of its fully retracted position, provided that when in this position, the sill does not reduce the clearance specified in 2.5.1.4. The electric contacts shall: (a) be positively opened by a lever or other device attached to and operated by the hinged platform sill. (b) be maintained in the open position by the action of gravity or by a restrained compression spring, or by both, or by positive mechanical means (c) be so designed or located that they shall not be accessible from within the car (d) not utilize mercury tube switches	Rationale: The present reference to 2.12.5 in requirement 2.15.16.1 is incorrect. While this proposal contains no technical change to electric contact requirements when a hinged platform sill is provided, the requirements are clearer when wholly contained in requirement 2.15.16.1. Previously, the rule created confusion by referencing electric contacts applicable to car doors or gates, or to the requirements for mechanical locks and contacts.	OEM design requirement

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	2.16 Capa	acity a	and Loading		
70	2.16.1.1	2013	Minimum Load Permitted Editorially revised: Minimum Load Permitted. The rated load in kg (lb) for passenger elevators shall be based on the inside net platform area, and shall be not less than shown by Fig. 8.2.1.2 (see Nonmandatory Appendix D and 2.26.11).	Rationale: To delete an incorrect reference.	
72	<u>2.16.3.3</u>	2013	Revised in its entirety: Material and Marking of Plates. Plates shall be of such material and construction that the letters and figures stamped, etched, cast, or otherwise applied to the faces shall remain permanently and readily legible. The height of the letters and figures shall be not less than (a) 6 mm (0.25 in.) for passenger elevator capacity plates (b) 25 mm (1 in.) for freight elevator capacity plates (c) 3 mm (0.125 in.) for data plates 2.16.3.3.1 Permanent data plates and marking plates shall be metal or durable plastic with 1.6 mm (0.063 in) minimum thickness. 2.16.3.3.2 The plates shall be securely fastened to prevent removal by hand when subjected to a force of 67 N (15 lb) in any direction. 2.16.3.3.3 All code required data shall be formed such that the characters remain permanently and readily legible and conform to the following: (a) The height of the letters and figures shall be not less than (i) 6 mm (0.25 in.) for passenger elevator capacity plates (ii) 25 mm (1 in.) for freight elevator capacity plates	Rationale: Revise wording to conform to the wording from the Ad Hoc Signage Committee < NOTE: Completely revised in 2019 CODE	[OEM] Permanent Data Plates & Marking Plates Affects - Data Plates (XHEAD Data Plate) - in car Capacity plates - counterweight runby plate - door operator data plate - governor & hoist rope tags
	2.16.4	2013	Editorially revised: Carrying of Passengers on Freight Elevators Freight elevators conforming to 2.16.4.1 through 2.16.4.98 shall be permitted to carry passengers.		
	2.16.4.7	2013	Deleted, and original 2.16.4.8 and 2.16.4.9 redesignated as 2.16.4.7 and 2.16.4.8, respectively	With the re-numbering of 2.12.5 to 2.14.5.7, this requirement is covered by 2.16.4.5.	
73	2.16.5.2	2013	Material and Marking of Signs Revised Material and marking of signs shall conform to 2.16.3.3, The sign shall conform to the requirements of ANSI Z535.4 or CAN/CSA-Z321 (see Part 9), except that the letters shall be not less than 13mm (0.5 in.) high. The sign shall be made of a durable material and shall be securely fastened.	Revise wording to conform to the wording from the Ad Hoc Signage Committee	

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	2.18 Spee	d Go	vernors		
78	2.18.4.1.2	2012	Speed Governor Overspeed Switch - Where Required and Function Revised The switches required in 2.18.4.1.1 shall be positively opened and operated by the overspeed action of the governor, except that the counterweight governor switch shall be permitted to be operated upon activation of the counterweight governor-rope retarding means (see 2.18.6.1).	Rationale: Moving the requirement for this switch to be positively opened from 2.18.4.4, which is being eliminated in this proposal.	Requirement was relocated in the code. [OEM] [I] Overspeed switch is positively opened. Speed reducing switch does not need to be. Can be field verifiable.
	2.18.4.1.3	2013	Added The switches required in 2.18.4.1.1 shall remain in the open position until manually reset. NOTE: Manual reset includes means such as a finger, hand or cable-actuated lever, cam, etc., or some form of electromechanical actuation from the location of elevator controllers located outside the hoistway or the enclosure as specified in 2.7.6.5.	Rationale: Moving the requirement for this switch to be of the manual reset type from 2.18.4.4, which is being eliminated in this proposal. Clarify manual reset.	[OEM] [I] Manual reset is required. Clarify manual reset.
79	2.18.4.2.5		Setting of Car Speed Governor Overspeed Switches Subparagraph (a) revised (a) A speed-reducing switch of the manually reset type conforming to 2.18.4.1.3 is provided on the governor, that will reduce the speed of the elevator in case of overspeed, and that shall be set to open as specified in 2.18.4.2.1, 2.18.4.2.2, or 2.18.4.2.3.	Rationale: Referencing the new requirement for the switch to be of the manually reset type, which also contains the note explaining manual reset.	
80	2.18.4.4	2013		Rationale: The speed-governor speed-reducing switch is not an EPD, as it is not listed in 2.26.2. However, it is being treated like an EPD in 2.18.4.4 by requiring it to be a positively-opened switch, though there doesn't appear to be a valid reason for doing so. In today's controllers, this switch is likely to feed a simple software input that will cause the controller to reduce its speed and stop at the next available floor. If it fails to do so and the car reaches 100% of the governor trip speed, the positively opened speed-governor overspeed switch is still there to remove power from the driving-machine motor and brake. The requirement for the speed-governor overspeed switches to be of the manually reset type should be addressed in the area where general requirements for this switch are listed. The requirement for the speed-governor speed-reducing switch to be of the manually reset type is already addressed in 2.18.4.2.5(a), so there's no need to repeat it here.	

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	2.19 Asce	nding	g Car Overspeed and Unintended Car Movement Protection		
82	2.19.2.2		Unintended Car Movement Protection - Where Required and Function Subparagraph (a)(1)(b) editorially revised (b) the occurrence of a single ground, or the failure of any mechanically operated switch that does not meet the requirements of 2.26.4.3.1, any single magnetically operated switch, contactor, or relay, or any single solid-state device, or a failure of a software system failure not conforming to 2.26.4.3.2, shall not render the detection means inoperative	Clarification of software system.	[E] - clarification of a failure mode OEM design requirement
82	2.19.3.1.3	2013	Emergency Brake (See Nonmandatory Appendix F) - Where Required Added: When required by 2.25.4.1.1 to reduce the car and counterweight speed such that the rated buffer striking speed is not exceeded, an emergency brake (see 1.3) conforming to 2.19.3.2 shall be provided.	The prohibition against the activation of the car safety by the emergency terminal speed limiting device was removed since if it is permissible to use a car or counterweight safety to provided ascending car overspeed protection or unintended movement protection then they should also be permitted to be used to prevent the car from striking a reduced stroke buffer above its rating. Also note the requirement for the retardation not in excess of 1g still applies.	[OEM] design requirement. Confirm emergency brake is provided when reduced stroke buffer is used. Confirm activation of ebrake, as required via a [Submitter] supplied testing procedure.
82	2.19.3.1.4	2013	Redesignated from former 2.19.3.1.3 and revised: A single device shall be permitted to meet the requirements of both 2.19.3.1.1, and 2.19.3.1.3 or separate devices shall be provided.		OEM design requirement
82	2.19.3.2	2013	Emergency Brake (See Nonmandatory Appendix F) - Requirements Subparagraphs (b), (c), and (d) revised: (b) be mechanically independent of the driving-machine brake (see also 2.19.3.2(a)(5)). (c) not be used to provide, or assist in providing, the stopping of the car when on automatic operation, unless applied as required in 2.19.1, and 2.19.2, and 2.25.4.1.1 or as permitted in 2.19.3.2(e) and (f) (d) be permitted to be applied only after the car is stopped when on automatic operation, except as required in 2.19.1, and 2.19.2 and 2.25.4.1.1	Emergency brake to be mechanically independent	[OEM] design requirement / permission

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	2.20 Susp	ensi	on Means and Their Connections		
84	2.20.3	2013	Factor of Safety Nomenclature for N editorially revised		
85, 86	<u>2.20.8.1</u>	2013	Protection Against Traction Loss First paragraph: 8.6.1.2.1(gf)	Reference revised	
85, 86	<u>2.20.8.1</u>	2013	Subparagraph (d)(2): [see 8.6.1.2.1(gf) and 8.6.11. 10 11]	References revised	
85, 86	<u>2.20.8.2</u>	2013	Broken Suspension Member Subparagraph (c): [see 8.6.1.2.1(gf)]	References revised	
85, 86	2.20.8.3	2013	Suspension-Member Residual Strength subparagraph (c): [see 8.6.1.2.1(gf)]	References revised	
88	2.20.9.6.2	2013	Thermosetting Resin Composition Subparagraph (c)(1)(m) editorially revised	Revised code book title	
	2.21 Cour	nterw			
92	2.21.1.3	2013	Guiding Means Title and paragraph revised in its entirety: 2.21.1.3 Guiding Members Means 2.21.1.3.1 Counterweight frames shall be guided on each guide rail by upper and lower guiding members attached to the frame. Retention means shall be provided to prevent the counterweight from being displaced by more than 13 mm (0.5 in.) from its normal running position should any part of the guiding means fail, excluding the guiding member base and its attachment to the frame. The retention means shall be permitted to be integral with the base. Guiding members shall be designed to withstand the forces imposed during normal operation of the elevator, loading and unloading, emergency stopping, and the application of safeties. 2.21.1.3.2 Means shall be provided to prevent the counterweight from being displaced by more than 13 mm (0.5 in.) from its normal running position. This protection shall be provided by either: (a) a guiding means wherein no failure or wear of the guiding member shall allow the counterweight to be displaced more than 13 mm (0.5 in.) from its normal running position; or (b) a retention means which shall be permitted to be integral with the guiding means. 2.21.1.3.3 All components of the means required to limit the displacement in accordance with 2.21.1.3.2 shall have minimum factor of safety of 5.	Rationale: The proposed change improves the safety of the guiding means by requiring a minimum factor of safety while eliminating language that is overly prescriptive. To prevent displacements greater than 13 mm (0.5 in.) which could occur on sliding members when gibs are lost or on roller guides when a roller fails.	[I] - Inspector to recognize new permission for guiding means. Repeat for CWT: Auxiliary retention no longer required. Guiding means to meet a factor of safety instead (Fs>=5)

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	2.22 Buffe	ers ar	nd Bumpers		
4, 95	Table 2.22.4.1	2013	Under Imperial Units, 115% of Rated Speed, ft/min; some values revised	Rationale: Prior to and during the harmonization process there were transcription errors and errors of conversion in the table which have been recently noticed. These are not material differences and no buffer strokes have been changed.	
	2.22.4.6	2013	Revised: 2.22.4.6 Means for Determining Oil Level. Oil buffers shall be provided with means for determining that the oil level is within the maximum and minimum allowable limits. Transparent sight gauges shall be permitted to be used	Rationale: Buffers of this design have been used in Europe for over 9 years with no reports of false positive oil levels or of any reports of shattering of the acrylic sight gauge upon buffer engagement; except for 0.125% of installed units related to manufacturing defects as a result of leakage around the sight gauge seal. This history includes over 5,400 buffers in use for over 9 years. All buffers are Type, acceptance and periodic tested which would demonstrate the suitability of materials used in the sight gauge.	[OEM] permission [I] - Re: Oil Buffers Sight glass to view buffer oil level is permissible
	2.22.4.7.3	2013	Type Tests and Certification for Oil Buffers Editorially revised	Revised code book title	

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	2.24 Drivi	ng Mac	chines and Sheaves		
106	2.24.4	7013 Ti	Fasteners and Connections Transmitting Load Title revised: 2.24.4 Fasteners and Connections Transmitting Load	Rationale: Changed to reflect the requirements covered in 2.24.4.1 and 2.24.4.2.	
	2.24.4.1	2013 do 2. 2. of sh	2.24.4.1 Fasteners and Rigid Connections. Set screws or threaded portions located	Rationale: Revised to ensure that when transmitting torque, all bolts share load or alternatively the connection is designed to have enough friction between the clamped surfaces generated by the fasteners.	[OEM] design requirement

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	2.25 Term	inal	Stopping Devices		
107, 108	2.25.2.1.1	2013	Normal Terminal Stopping Devices - Where Required and Function revised Normal terminal stopping devices shall be provided and arranged to detect the position of the car and cause the car to slow down and stop the car automatically, at or near the top and bottom terminal landings, with any load up to and including rated load in the car and from any speed attained in normal operation (see 2.16.8).	any method was permitted to be used to stop the car at or near the terminal landing.	OEM design requirement
	2.25.2.1.2	2013	of the position sensing device(s) of the normal terminal stopping devices and the	tape, target, wire for it's presence. A common mounting means is permitted for the NTSD, normal stopping means, and final terminal stopping device.	[OEM] permission for design. Monitoring required. [I] to be aware of permission for common items (not redundant) tape / target / wire / mounting means

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109–1 11	2.25.4.1.1	2013	Emergency Terminal Speed-Limiting Device The emergency terminal speed limiting device shall automatically reduce the carand counterweight speed by removing power from the driving machine motor and brake, such that the rated buffer striking speed is not exceeded. If the normal terminal stopping device fails to slow down the car at the terminal as intended, the emergency terminal speed-limiting device shall reduce the car and counterweight speed such that the rated buffer striking speed is not exceeded. The emergency terminal speed-limiting device shall remove power from the driving-machine motor and brake and shall either (a) apply an emergency brake(s) conforming to 2.19.3 in combination with the removal of power from the driving-machine motor and brake (see also 2.25.4.1.3), or (b) apply an emergency brake(s) conforming to 2.19.3 if removal of power from the driving-machine motor and brake fails to reduce the car and counterweight speed as intended.	Emergency terminal speed-limiting device (when reduced stroke buffer used) is now also required to apply an emergency brake (rope, sheave, etc.) in addition to the main brake if application of the main brake fails to slow down the car (machine shaft broken, etc.).	[E] [I] [OEM] design requirement. [Submitter] Checking of ebrake application and assurance of deceleration to be provided in a design submission testing procedure.
	2.25.4.1.2	2013	part of the position sensing devices shall be permitted for the actuation of both the	Common cam, etc. is permitted to actuate both the position sensing device of the emergency terminal speed-limiting device and the normal terminal stopping device. A common tape, target, etc. that is sensed by both the ETSL device and the normal terminal stopping device is permitted with a new requirement to monitor the tape, target, wire, etc. for it's presence. A common mounting means is permitted for the position sensing devices of the ETSL device and the normal stopping means.	OEM design permission for common cams. Repeat the permission of NTSD

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	2.25.4.1.3	2013	The car speed sensing device shall be independent of the normal speed control system. The car speed-sensing device used for the emergency terminal speed-limiting device shall be permitted to be either a separate car speed-sensing device from that of the normal speed control system or the same car speed-sensing device, provided that a separate means is used to continuously verify the proper operation of this speed-sensing device. Where the same car speed-sensing device is used, the detection of a failure of this car speed-sensing device shall cause the power to be removed from the driving-machine motor and brake. The car speed-sensing device(s) and, where required, the verification means described above, shall conform to the following:	The car speed sensing device is permitted to be the same device for both the ETSL device and the normal speed control system. New requirement for a separate means to continuously verify the proper operation of the speed sensing device. A common shaft, drum, etc. is permitted to actuate the speed sensing device and the separate means with a new requirement to monitor the connection if it is dependant on traction, friction, or a flexible coupling. A common tape, target, wire, etc. is permitted that is sensed by both speed sensing devices. New requirement to monitor the tape, target, wire for it's presence. A common mounting means is permitted.	[OEM] design permission [Submitter] Testing procedure
	2.25.4.1.3	2013	(a) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (1) traction (excluding the traction between the drive sheave and suspension means and the traction between the governor and governor rope) (2) friction (except for interference fits) (3) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement and shall cause the electric power to be removed from the elevator driving-machine motor and brake. (b) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (1) the member is monitored such that when its presence is not detected, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (2) the common member is securely mounted in such a manner that horizontal movement of the car shall not affect the operation of the sensors (c) a common mounting means shall be permitted		[OEM] design permission
	2.25.4.1.4	2013	Redesignated from former 2.25.4.1.3 and revised; original 2.25.4.1.4 deleted	Emergency terminal speed limiting device no longer prohibited from applying the car safety.	OEM Permission

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	2.25.4.1.8		Where the operation of emergency terminal speed-limiting devices is dependent on car position relative to the terminal landings (a) friction or traction drives shall not be used for the determination of the position of the car relative to the terminal landings, except where 2.25.4.1.8(a)(1) or 2.25.4.1.8(a)(2) is complied with (1) The position sensing device for the emergency terminal speed-limiting device is driven by the overspeed governor and the car position is corrected before the car approaches a terminal landing and also compensated for governor rope creep over the governor sheave. (2) An additional, separate emergency terminal speed-limiting position sensing device not relying on the same friction or traction drive is used to verify the emergency terminal speed-limiting device position sensing device. When the verification determines that the position sensing devices deviate to the extent that the emergency terminal speed-limiting device cannot stop the car as required, the power shall be removed from the driving-machine motor and brake. (b) if tape, chain, or rope is used	Friction or traction drive now permitted for the position sensing device for determination of the position of the car relative to the terminal landing. New requirement to either correct the car position before the car approaches a terminal landing when the position sensing device for ETSL device is driven by the overspeed governor or an additional separate ETSL position sensing device not relying on the same friction or traction drive is used to verify the ETSL device position sensing device when a friction or traction device is used.	[OEM] design permission. ETSL sensing devices cannot use friction or traction UNLESS (new permission) [Submitter] test procedure
	2.25.4.2	2013	Emergency Terminal Stopping Device Emergency terminal stopping devices shall be installed on all elevators with static control and rated speeds over 1 m/s (200 ft/min) and shall conform to 2.25.4.2.1 and 2.25.4.2.2, except for elevators with static generator-field control that use the normal terminal stopping device to limit the generator-field current directly, or elevators that have an emergency terminal speed-limiting device that complies with 2.25.4.1.	Exception for static generator-field control moved from the end of the clause to the beginning of the clause.	
	2.25.4.2.1	2013	Elevators with static control and rated speeds over 1 m/s (200 ft/min) shall be provided with an The emergency terminal stopping device that will shall cause power to be removed from the driving-machine motor and brake should the normal stopping means and the normal terminal stopping device fail to cause the car to slow down at the terminal as intended.	2.25.4.2 broken up into a title clause and two sub clauses.	

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2.25.4.2.2	2013	the failure of the normal terminal stopping device and/or the failure of the normal speed control system shall not prevent the emergency terminal stopping device from functioning as specified, except that (a) for both the position sensing device of the emergency terminal stopping device and the position sensing device of the normal terminal stopping device (1) a common actuating means (e.g., a cam, etc.) that is not physically part of		OEM design permission.

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	2.25.4.2.2	2013	(b) The car speed-sensing device used for the emergency terminal stopping device shall be permitted to be either a separate car speed-sensing device from that of the normal speed control system or the same car speed-sensing device, provided that a separate means is used to continuously verify the proper operation of this speed-sensing device. Where the same car speed-sensing device is used, the detection of a failure of this car speed-sensing device shall cause the power to be removed from the driving-machine motor and brake. The car speed-sensing device(s) and, where required, the verification means described above, shall conform to the following: (1) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (a) traction (excluding the traction between the drive sheave and suspension means and the traction between the governor and governor rope) (b) friction (except for interference fits), or (c) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement and shall cause the electric power to be removed from the elevator driving-machine motor and brake.	continued	OEM design permission.
	2.25.4.2.2	2013	(b) (2) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (a) the member is monitored such that when its presence is not detected, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (b) the common member is securely mounted in such a manner that horizontal movement of the car shall not affect the operation of the sensors (3) a common mounting means shall be permitted Elevators with static generator field control that use the normal terminal stopping device to limit the generator-field current directly, or elevators that have an emergency terminal speed limiting device that complies with 2.25.4.1, are not required to have an emergency terminal stopping device.	continued	OEM design permission.

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age	(see update)	Yr		Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	2.26 Oper	ating	Devices and Control Equipment		
11	2.26.1.4.1 (b)(4)(b)	2013	Inspection Operation (b) A switch for transferring control of the elevator to the operating devices for inspection operation shall be provided, that shall (4) when in the "INSPECTION" position (b) except as provided, in 2.26.1.4.2(f), cause the movement of the car to be solely under the control of the inspection operating devices through a contact that shall be (1) through a contact that is positively opened mechanically and whose; their opening shall not depend solely on springs, or (2) SIL rated with a SIL equal to or greater than the SIL indicated for the applicable device shown in Table 2.26.4.3.2	Option added to permit a SIL rated transfer switch.	[OEM] design permission. [I] SIL label
	2.26.1.4.1(d)(1)	2013	. , ,		OEM design permission.

				CHANGE NOTES	
ige .	Req'mt # (see update)	Yr		Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
2	2.26.1.4.1(d)(1)	2013	The car speed-sensing device(s) and, where required, the verification means described above, shall conform to the following: (a) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (1) traction (excluding the traction between the drive sheave and suspension means and the traction between the governor and governor rope) (2) friction (except for interference fits), or (3) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement while on inspection operation and shall cause the electric power to be removed from the elevator driving-machine motor and brake. (b) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (1) the member is monitored such that when its presence is not detected while on inspection operation, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (2) the common member is securely mounted in such a manner that horizontal movement of the car shall not affect the operation of the sensors (c) a common mounting means shall be permitted	continued	
3 2	2.26.1.4.3(d)	2013	In-Car Inspection Operation When in-car inspection operation is provided, it shall conform to 2.26.1.4.1, and the transfer switch (d) when in the "INSPECTION" position, shall not enable hoistway access switch(es). A third switch position labeled "ACCESS ENABLE" shall be permitted to enable the hoistway access switches (see 2.12.7.3.1 2.12.7.3.3(a)).	Switch in the car now clearly labelled "ACCESS ENABLE".	[I] - field verifiable
	<u>2.26.1.5.1</u>	2013	Inspection Operation With Open Door Circuits. When switching to either "BYPASS" or "OFF" position, they shall (a) have contacts that are positively opened mechanically; when switching to either "BYPASS" or "OFF" positions, and their opening shall not be solely dependent on springs, or (b) be SIL rated with a SIL equal to or greater than the SIL indicated for the applicable device shown in Table 2.26.4.3.2	Option added to allow a SIL rated Bypass Switch.	[OEM] design permission [I] SIL label

Comments in blue, we start in red, original code text in black Comments in blue, we start in red, original code text in black Comments in blue, we start in red, original code text in black (See a summary highlight For elevators with static control, earling endered a mean independent from the original code text of the committee of the commit	Page , ' , ,	Operation in Leveling or Truck Zone A leveling or truck-zoning device shall not move the car at a speed exceeding 0.75 m/s (150 ft/min). For elevators with static control, an independent-a means independent from the normal means to control the speed shall be provided to limit the leveling speed to a maximum of 0.75 m/s (150 ft/min) with the doors open, should the normal means to control this speed (mechanical, electrical, or solid-state devices) fail to do so.	Comments in blue, new text in red, original code text in black green = summary highlight Rationale: The above changes clarify that the independence is limited to the speed limiting means as compared to the normal speed control. The provisions and requirements listed in a) and b) reflect acceptable industry practices with	
A leveling or truck-roing device shall not move the car at a speed exceeding 0.75 (100 f/min). For elevation with static control, environmental provided to limit the leveling speed to a maximum of 0.75 m/s (1350 f/min) with the doors open, should the normal means to control this speed shall be provided to limit the leveling speed to a maximum of 0.75 m/s (1350 f/min) with the doors open, should the normal means to control this speed (mechanical, electrical, or solid-state devices) fail to do 50. 2083 The car speed-sensing device used for the means to limit the speed of the car while leveling with open doors shall be permitted to be either a separate car speed-sensing device from that of the normal speed control system or the same car speed-sensing device, provided that a separate meant is used to continuously verify the proper operation of this speed sensing device. Where the same car speed-sensing device is used, the detection of a failure of the car speed-sensing device while leveling with open doors and cause the power to be removed from the dinving-machine motor and brake. The car speed-sensing device (5) and, where required, the verification means described above, shall conform to the following: (a) traction actualing means (e.g., a derive) permitted provided that it is not dependent on the following: (b) a common actualing means (e.g., a derive) permitted provided that it is not dependent on the following: (c) fraction (excluding the traction between the drive sheeve and suspension means and the traction between the governor and governor rope): (c) fraction (excluding the traction between the drive sheeve and suspension means and the traction between the governor and governor rope): (c) fraction (excluding the traction between the given the permitted provided that it is not dependent on the following: (d) a recommon member of the control of the sensors of the sensors of the sensor of the sensors of the sensor of the s		A leveling or truck-zoning device shall not move the car at a speed exceeding 0.75 m/s (150 ft/min). For elevators with static control, an independent a means independent from the normal means to control the speed shall be provided to limit the leveling speed to a maximum of 0.75 m/s (150 ft/min) with the doors open, should the normal means to control this speed (mechanical, electrical, or solid-state devices) fail to do so.	The above changes clarify that the independence is limited to the speed limiting means as compared to the normal speed control. The provisions and requirements listed in a) and b) reflect acceptable industry practices with	OEM design permission
while leveling with open doors shall be permitted to be either a separate car speed-sensing device must not the normal speed control system or the same car speed-sensing device, provided that a separate means is used to continuously verify the proper operation of this speed-sensing device. Where the same car speed-sensing device is used, the detection of a failure of this car speed-sensing device is used, the detection of a failure of this car speed-sensing device while leveling with open doors shall cause the power to be removed from the driving-machine motor and brake. The car speed-sensing device(s) and, where required, the verification means described above, shall conform to the following: (a) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (1) traction (excluding the traction between the drive sheave and suspension means and the traction between the drive sheave and suspension means and the traction between the drive sheave and suspension means and the traction between the drive sheave and suspension means and the traction between the governor and governor or ope) (2) friction (except for interference fits), or (3) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement while leveling with open doors and shall cause the electric power to be removed from the elevator driving-machine motor and brake. 2031 (b) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (1) the member is monitored such that when its presence is not detected, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (2) the common member is securely mounted in such a manner that horizontal movement of the c		The car speed-sensing device used for the means to limit the speed of the car	i de la companya de	
described above, shall conform to the following: (a) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (1) traction (excluding the traction between the drive sheave and suspension means and the traction between the governor and governor rope) (2) friction (except for interference fits), or (3) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement while leveling with open doors and shall cause the electric power to be removed from the elevator driving- machine motor and brake. (b) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (1) the member is monitored such that when its presence is not detected, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (2) the common member is securely mounted in such a manner that horizontal movement of the car shall not affect the operation of the sensors	2.26.1.6.6	while leveling with open doors shall be permitted to be either a separate car speed-sensing device from that of the normal speed control system or the same car speed-sensing device, provided that a separate means is used to continuously verify the proper operation of this speed-sensing device. Where the same car speed-sensing device is used, the detection of a failure of this car speed-sensing device while leveling with open doors shall cause the		
		described above, shall conform to the following: (a) a common actuating means (e.g., a driving-machine shaft, brake drum, etc.) shall be permitted provided that it is not dependent on the following connection types, unless the connection is continuously monitored: (1) traction (excluding the traction between the drive sheave and suspension means and the traction between the governor and governor rope) (2) friction (except for interference fits), or (3) a flexible coupling where positive engagement is not assured between coupling halves Where monitoring is required, the monitoring shall detect a failure that prevents conformance with this requirement while leveling with open doors and shall cause the electric power to be removed from the elevator driving-machine motor and brake. (b) a common member (e.g., tape, target, wire, etc.) that is sensed by both speed-sensing devices shall be permitted, provided that (1) the member is monitored such that when its presence is not detected, this shall cause the electric power to be removed from the elevator driving-machine motor and brake (2) the common member is securely mounted in such a manner that horizontal movement of the car shall not affect the operation of the sensors		

			What's New in ASME A17.1-201	3 to A17.1-2019 CSA B44-13 to CSA B44:19	
Page	Req'mt #	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	2.26.2	2013	Electrical Protective Devices When an electrical protective device is activated (operated, opened), it shall cause the electric power to be removed from the elevator driving-machine motor and brake. [See also 2.26.3, 2.26.4.3, 2.26.4.4, 2.26.7, 2.26.8.3(c), 2.26.9.3, and 2.26.9.4.] Electrical protective devices shall be provided as specified in 2.26.2.1 through 2.26.2.37 39.	Reference to new EPDs added (retractable ladder and Sway control guide slack suspension detection means).	more EPD's identified retractable ladder switch is an EPD
115	2.26.2.4	2013	Motor Field Sensing Means Motor Field Sensing Means. Where direct current is supplied to an armature and shunt field of an elevator driving-machine motor, a motor field current sensing means shall be provided, that shall cause the electric power to be removed from the driving-machine motor armature, and brake unless current is flowing in the shunt field of the motor, except for static control elevators provided with a device to detect an overspeed condition prior to, and independent of, the operation of the governor overspeed switch, except that (a) a common actuating means (e.g., a governor shaft or sheave, etc.) that is not physically part of the speed-sensing devices shall be permitted for the actuation of both the speed-sensing device of the overspeed detection device and the governor overspeed switch (b) a common mounting means shall be permitted for the speed-sensing device of the overspeed detection device and the governor overspeed switch This device shall cause power to be removed from the elevator driving-machine motor armature and machine brake.		OEM design permission
	2.26.2.6	2013	Broken Rope, Tape, or Chain Switches 2.26.2.6 Broken Rope, Tape, or Chain Switches. The switch or switches that shall be opened by a failure of a rope, tape, or chain, shall be provided when required by 2.25.2.3.2 or 2.25.4.1.87(b).	Renumbering.	
	2.26.2.10	2013	Speed-Governor Overspeed Switch A speed-governor overspeed switch shall be provided when required by 2.18.4.1 and shall conform to 2.18.4.1.2, 2.18.4.1.3, 2.18.4.2, and 2.18.4.3.	Added additional reference for Speed-Governor Overspeed switch to be of the manually reset type (renumbering).	
116	2.26.2.25	2013	Blind Hoistway Emergency Door Electric Contact Blind Hoistway Emergency Door Locking Device Electric Contact. An electric contact A locking device-conforming to 2.11.1.2(e) shall be provided on every emergency door in a blind hoistway.	Changed from locking device contact to electric contact, permits lock and contact instead of interlock for blind hoistway emergency door. Rationale: Interlocks are not being provided today, this is not a reduction in safety.	[E] [I] permission for an electric contact

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	2.26.2.39	2013	Sway Control Guide Slack Suspension Detection Means An electrical device conforming to the following shall be provided where required by 2.30.2(d): (a) It shall operate whenever any of the suspension members of the sway control guide become slack. (b) It shall be of the manually reset type.	Device to detect whenever any of the suspension members of the sway control guide become slack. Manually reset type. Contacts require positive mechanical opening or SIL rating.	[I] field verifiable
117	<u>2.26.4.3.1</u>	2013	Electrical Equipment and Wiring They shall have contacts that are positively opened mechanically; their opening shall not be solely dependent on springs. Exceptions are devices described by 2.26.2.4, 2.26.2.19, 2.26.2.29, and 2.26.2.30; and 2.26.2.12 and 2.26.2.16 where magnetically operated, optical, or static type switches solid-state devices are used.	Terminology updated from "static type switches" to "solid-state devices".	
	2.26.4.3.2	2013	They shall be listed/certified and labeled/marked-to a SIL rating in accordance with the applicable requirements of IEC 61508-2 and IEC 61508-3 with a SIL rating equal to or greater than the SIL indicated for the applicable device shown in Table 2.26.4.3.2. They shall be labeled/ marked with part identification. Wiring diagrams (see 8.6.1.6.3) shall include part identification, SIL, and certification information that shall be in accordance with the certifying organization's requirements. Assemblies containing SIL rated devices shall be labeled or tagged with the statement: "Assembly contains SIL rated devices. Refer to Maintenance Control Program and wiring diagrams prior to performing work." The detection of a dangerous fault (e.g., with diagnostic tests, proof-tests, or by any other means) in SIL rated devices E/E/PES-that can tolerate a single fault shall cause the elevator to revert to a known fail-safe condition. Where necessary, to maintain the integrity of the SIL rated devices E/E/PES-and maintain the fail-safe condition prior to a second fault that could lead to a dangerous condition, a manual reset shall be required to remove the SIL rated devices E/E/PES-from the fail-safe condition.	Assemblies containing SIL Rated Devices shall be labeled or tagged with the statement: "Assembly contains SIL Rated Devices. Refer to MCP and wiring diagrams prior to performing work."	[E] submission verified [I] field verifiable [Submitter] schematics / wiring diagram identify SIL devices
	<u>2.26.4.4</u>	2013	Control equipment shall be tested in accordance with the testing requirements of ISO 22200:2009. Control equipment tested in accordance with the testing requirements of EN 12016:1998 prior to one year after the effective date of the 2013 Edition of this Code need not be retested in accordance with the testing requirements of ISO 22200:2009. The control equipment shall be exposed by exposing it to interference levels at the test values specified for "safety circuits." The interference shall not cause any of the conditions described in 2.26.9.3.1(a) through (e) or render the traction-loss detection means ineffective, and shall not cause the car to move while on inspection operation.	revisions are not due to any known deficiencies with current products or the previous EN Standard. Products tested to date have an excellent safety record and should remain acceptable.	[E] submission verified

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	2.26.4.4.1	2013	The test for voltage dips in Table 6 of EN 12016:1998 shall be permitted to be conducted by either using the times specified in Table 6, or using a voltage reduction of 30% of the nominal input voltage for 0.5 cycles at 60 Hz and a voltage reduction of 60% of nominal input voltage for 5 cycles at 60 Hz.	Date reference added for EN 12016:1998.			
118, 119	<u>Table</u> 2.26.4.3.2	2013	(1) Requirement 2.12.7.2.3 revised	Clause reference changed from the in-car enable for Hoistway Access to the Hall Key Switches for Hoistway Access. Other requirements are unchanged.			
118, 119	<u>Table</u> 2.26.4.3.2	2013	(2) Requirement 2.26.1.4.1(b) revised	Device name revised from "Inspection switch" to "Inspection transfer switch"			
118, 119	<u>Table</u> 2.26.4.3.2	2013	(3) Requirement 2.26.2.25 revised	Blind hoistway emergency door revised from interlock requirement to lock and contact.			
118, 119	<u>Table</u> 2.26.4.3.2	2013	(4) Requirement 2.26.2.39 added	Sway Control Guide Slack Suspension Detection Means Added. SIL 2			
118, 119	<u>Table</u> 2.26.4.3.2	2013	(5) General Note (c) editorially revised	Clause reference updated because of changes in section 8.6 for MCP.			
120	<u>2.26.8.2</u>	2013	Release and Application of Driving-Machine Brakes Two means shall be provided to independently remove power from the brake. The electrical protective devices required by 2.26.2 shall control both means, except that leveling shall be permitted to take place with power opening of doors and gates in conformance with 2.13.2.1.1 and 2.13.2.2.1. One of the means shall be either a contactor, or SIL rated device(s) an E/E/PES-with a SIL of not less than the highest SIL of the function for the electrical protective devices involved with removing power from the brake and shall be listed/certified and labeled/marked-in accordance for compliance-with the applicable requirements of IEC 61508-2 and IEC 61508-3. SIL rated devices shall be identifiable on wiring diagrams (see 8.6.1.6.3) with part identification, SIL, and certification identification information that shall be in accordance with the certifying organization's requirements. This means is not required to remove power from the driving-machine motor. If the brake circuit is ungrounded, power shall be interrupted at all power feed lines to the brake. Assemblies containing SIL rated devices shall be labeled or tagged with the statement: "Assembly contains SIL rated devices. Refer to the Maintenance Control Program and wiring diagrams prior to performing work."	New labelling requirements for SIL Rated devices (devices to have part identification, Schematics to have part identification, SIL, and certification identification information). Assemblies containing SIL Rated Devices shall be labeled or tagged with the statement: "Assembly contains SIL Rated Devices. Refer to MCP and wiring diagrams prior to performing work."	[I] field verifiable		

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	2.26.9.3.1(c)	2013	Protection Against Failures The occurrence of a single ground or the failure of any single magnetically operated switch, contactor, or relay, or any single device that limits the leveling or truck zone, or any single solid-state device not a part of a software system; or a failure of a software system in circuits not in conformance with 2.26.9.3.2(b) shall not (c) permit speeds in excess of those specified in 2.12.7.3.23(b), 2.26.1.4.1(d)(1), and 2.26.1.6.6	Clause reference for Hoistway Access operation corrected.	
	2.26.9.3.2(b)		Methods used to satisfy 2.26.9.3.1 using software systems are permitted, provided that (b) the software system and related circuits are listed/certified and-labeled/marked-to a SIL rating that is in accordance for compliance with the applicable requirements of IEC 61508-2 and IEC 61508-3. This software system and its related circuits shall have a SIL of not less than the highest SIL value of the safety function(s) in Table 2.26.4.3.2 used in the circuit. The software system and related circuits shall be identifiable on wiring diagrams (see 8.6.1.6.3) with part identification, SIL, and certification identification information that shall be in accordance with the certifying organization's requirements. Assemblies containing SIL rated devices shall be labeled or tagged with the statement: "Assembly contains SIL rated devices. Refer to Maintenance Control Program and wiring diagrams prior to performing work."	New labelling requirements for SIL Rated devices (devices to have part identification, Schematics to have part identification, SIL, and certification identification information). Assemblies containing SIL Rated Devices shall be labeled or tagged with the statement: "Assembly contains SIL Rated Devices. Refer to MCP and wiring diagrams prior to performing work."	[E] submission verified [I] field verifiable
121	2.26.9.5.1	2013	Subparagraph (b) revised similar to 2.26.9.3.2(b)		
	2.26.9.6.1	2013	Subparagraph (b) revised similar to 2.26.9.3.2(b)		

				3 to A17.1-2019 CSA B44-13 to CSA B44:19	
Page	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	2.27 Eme	rgend	cy Operating and Signaling Devices		
122, 124	2.27.1.1.3	2013	Emergency Communications (1) Subparagraph (a) editorially revised	Revised code book title	2019 Code revised 2.27.1.1 in its entirety
122, 124	<u>2.27.1.1.3</u>	2013	(2) Subparagraph (f) revised: 2.27.1.1.3 (f) The two-way communications, once established, shall be disconnected only when authorized personnel outside the car terminate the call or a timed termination occurs. A timed termination by the two-way communication means in the elevator, with the ability to extend the call by authorized personnel, is permitted if voice notification is sent a minimum of 3 minutes after communication has been established. Upon notification, authorized personnel shall have the ability to extend the call; automatic disconnection shall be permitted if the means to extend are not enacted within 20 seconds of the voice notification.		see 2019 code
122, 124	<u>2.27.1.1.4</u>	2013	Subparagraph (b) revised: 1.1.4 (b) Two-way voice communications, once established, shall be disconnected only when emergency personnel outside the car terminates the call or a timed termination occurs. A timed termination by the two-way communication means in the elevator, with the ability to extend the call by authorized personnel, is permitted if voice notification is sent a minimum of 3 minutes after communication has been established. Upon notification, emergency personnel shall have the ability to extend the call; automatic disconnection shall be permitted if the means to extend are not enacted within 20 seconds of the voice notification.		
122, 124	<u>2.27.1.1.6</u>	2013	(1) Subparagraph (a) revised in its entirety: 2.27.1.1.6 (a) The two-way communications means within the car shall include a means to verify operability of the telephone line-where; 1) \(\forall \) verification of the telephone line operability shall be automatically performed; 2) verification may be continuous or periodic; 3) periodic verification shall be at least on a daily basis; 4) verification \(\frac{and}{and}\) shall not require activation of the two-way communications link(s). If means other than a telephone line (e.g., VOIP, network, intercom, etc.) is used for the two-way communications, similar verification of this equivalent means shall be performed.	Rationale: To clarify the original intent of the committee that silencing the signal shall provide a meaningful period of quiet even if the two-way communication means is checked continuously.	see 2019 code
122, 124	<u>2.27.1.1.6</u>	2013	(2) Subparagraph (b)(3) revised: AThe means to silence the audible signal shall be provided and shall be accessible only to authorized personnel. The signal when silenced shall remain silent for a period of no less than 12 hours or unless until activated by the next failed periodic verification [see 2.27.1.1.6(a)(3)].		

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122, 124	<u>2.27.1.1.6</u>	2013	the telephone line or equivalent means while the telephone line or equivalent	Rationale: The alarm signals shall be silenced, extinguished and reset as soon as practical after the phone line operability has been restored. 5 minutes is a reasonable time to verify that reinstatement of the line has occurred. Reorganize for clarity, coordination with TN 10-1162, and to ensure there is no misunderstanding that the signal needs to reactivate every 5 minutes.	see 2019 code
125	2.27.2.3	2013	Emergency or Standby Power System Revised: 2.27.2.3 An illuminated signal(s) marked "ELEVATOR EMERGENCY POWER" shall be provided in the elevator lobby at the designated level for each group of elevators or for any single elevator not in a group. The signal(s) shall-to indicate that the normal power has failed and the emergency or standby power is in effect for one or more of the cars in this group operation that group of elevators or that single elevator.	Rationale: To clarify the intent of the requirement. Buildings with multiple groups may include one or more single elevators. These single elevators should also be provided with the illuminated emergency power signal. Previous requirement did not clearly mandate that an illuminated emergency power signal was required for single elevators.	
125	<u>2.27.2.4.4</u>	2013	Subparagraph (a) revised: 2.27.2.4.4 An automatic means shall be provided to select each elevator one or more at a time as follows: (a) When selected, an elevator that is not on designated attendant operation, inspection operation, or Firefighters' Emergency Operation shall return to the designated level where the power-operated doors at the landing where the illuminated signal (see 2.27.2.3) is located shall open and remain open. Where more than one entrance is provided at the designated level, the other doors are permitted to open. The selection shall then be automatically transferred to another elevator until all elevators have been selected.	Rationale: To clarify operation of elevator with alternate doors.	field verifiable/permission
126	2.27.3.1.1	2013	Phase I Emergency Recall Operation Subparagraph (b) revised: (b) labeled "FIRE RECALL" and its positions marked "RESET," "OFF," and "ON" (in that order), with the "OFF" position as the center position. The "FIRE RECALL" letters shall be a minimum of 5 mm (0.25 in.) high in red or a color contrasting with a red background. Text shall be either red on a background which contrasts with red, or a color which contrasts with red on a red background.	Rationale: The current requirement does not forbid red text on a red background if the text color contrasts with the background.	field verifiable Red text or Red background permitted Colours must contrast
126	2.27.3.1.2	2013	(1) Revised: 2.27.3.1.2 An additional key-operated "FIRE RECALL" switch, with two positions that will not change position without a deliberate action by the user, marked "OFF" and "ON" (in that order), shall be permitted only at the building fire control station fire command center.	Clarifies location of additional fire recall switch. Revised terminology	

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126	2.27.3.1.2	2013	(2) Note added: Note (2.27.3.1.2): In jurisdictions enforcing NBCC, the Fire Command Center (FCC) is known as the Central Alarm and Control Facility (CACF).		
126	<u>2.27.3.1.6</u>	2013	(1) Subparagraph (a) revised: 2.27.3.1.6 When a "FIRE RECALL" switch is in the "ON" position all cars controlled by the switch shall operate as follows: (a) A car traveling towards the designated level shall continue nonstop to the designated level and power operated doors shall open and remain open. On cars with two more than one entrances entrance, if both the doors for another entrances entrance can be opened at the designated level, only the doors serving the lobby where the "FIRE RECALL" switch is located shall automatically open and remain open. Once at the designated level, all in-car door open button(s) shall be operative. Once the doors at an entrance other than the entrance serving the lobby where the "FIRE RECALL" switch is located, are opened by means of an incar door open button, they shall initiate reclosing within 15 seconds of reaching the normal open position.	2.27.3.1.6(a) – To clarify that any door (side, rear, etc.) that does not have an associated "FIRE RECALL" switch is not to be automatically opened when the car returns to the designated level. Because the existing language only addresses when the door open button(s) are to be rendered inoperative, additional language is needed to clarify that the door	Not all car doors must open when a car is recalled to the designated level. If they are opened by < > button, they shall close after 15 s
126	2.27.3.1.6	2013	(2) Subparagraph (d)(2) editorially revised: 2.27.3.1.6(d)(2) Elevators having power-operated vertically sliding doors provided with automatic or momentary pressure closing operation shall have the closing sequence initiated without delay in accordance with 2.13.2.4 2.13.3.4 and the car shall proceed to the designated level.	Rationale: To correct a reference, 2.13.2.4 does not exist.	
126	2.27.3.1.6	2013	(3) Subparagraph (f)(2) revised: 2.27.3.1.6 (f) (f) All car and corridor call buttons shall be rendered inoperative. All call-registered lights and directional lanterns shall be extinguished and remain inoperative. Car position indicators, where provided, shall remain operative. Where provided, landing position indicators shall be extinguished and remain inoperative, except at the designated level and the building fire control station-fire command center, where they shall remain operative.		
127 – 1 29	2.27.3.2.1 NON-NBCC	2013	Phase I Emergency Recall Operation by Fire Alarm Initiating Devices (1) First paragraph revised: 2.27.3.2.1 In jurisdictions not enforcing the NBCC, smoke detectors or other automatic fire detectors in environments not suitable for smoke detectors (fire alarm initiating devices), used to initiate Phase I Emergency Recall Operation shall be installed in conformance with the requirements of NFPA 72, and shall be located	NON NBCC jurisdictions	

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127–1 29	2.27.3.2.1	2013	 (2) Subparagraphs (a) and (b) editorially revised: (a) at each elevator lobby-each floor served by the elevator (b) in the associated elevator machine room, machinery space containing a motor controller or electric driving machine, control space, or control room 	Rationale: To clarify that only FAIDs located in/at the elevator lobbies shall cause recall of the associated elevator(s).	At each floor, changed to each lobby (S524 provides effective radius of detection for FAID's)
127–1 29	2.27.3.2.2	2013	 (1) Subparagraphs (a) and (b) revised: (a) at each elevator lobby each floor served by the elevator (b) in the associated elevator machine room, machinery space containing a motor controller or electric driving machine, control space, or control room 	Rationale: To clarify that only FAIDs located in/at the elevator lobbies shall cause recall of the associated elevator(s).	[I] At each floor, changed to each lobby (CAN/ULC-S524 Installation of Fire Alarm Systems provides effective radius of detection for FAID's not more than 6.4m)
127–1 29	2.27.3.2.2	2013	(2) Subparagraph (c) added: (c) in the elevator hoistway, when sprinklers are located in those hoistways.	Rationale: To harmonize with 2.27.3.2.1 and to ensure that detectors are located in the hoistway when there are sprinklers in the hoistway.	field verifiable
127–1 29	2.27.3.2.3	2013	Subparagraph (b) editorially revised: (b) The activation of a fire alarm initiating device specified in 2.27.3.2.1(b) or 2.27.3.2.2(b) shall cause all elevators having any equipment located in that machine room or space, and any associated elevators of a group automatic operation, to be returned nonstop to the designated level. If the machine room is located at the designated level, the elevator(s) shall be returned nonstop to the alternate level.		
127–1	2.27.3.2.6	2013	Revised in its entirety: 2.27.3.2.6 When a fire alarm initiating device in the machine room, control space, control room, or hoistway initiates. Phase I Emergency Recall Operation is initiated by a fire alarm initiating device for any location listed in 2.27.3.2.6(a) through (e), as required by 2.27.3.2.3 or 2.27.3.2.4, the visual signal [see 2.27.3.1.6(h) and Fig. 2.27.3.1.6(h)] shall illuminate intermittently only in a car(s) with equipment in that location. machine room, control space, control room, or hoistway. a) Machine room b) Machinery space containing a motor controller or driving machine c) Control room d) Control space e) Hoistway		

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127–1 29	2.27.3.2.7 NON-NBCC	2013	Added: 2.27.3.2.7 In jurisdictions not enforcing the NBCC, listed relay(s) or other listed appliance(s) as specified and defined in NFPA 72 for connection to the fire alarm system shall be provided, and shall be; (a) installed in conformance with the requirements of NFPA 72 (b) used to initiate Phase I Emergency Recall Operation; and (c) located outside of any room or space requiring Group 1 Security (see 8.1).	Rationale: This requirement would specify that a listed relay or listed appliance that complies with NFPA 72 (Requirement 6.16.2.2) interface with fire alarm systems in jurisdictions not enforcing the NBCC and does not require the fire alarm company employees to enter dangerous areas. This is essentially a correlation, acknowledging these devices are to be installed per the NFPA code. This requirement will clarify the interface device should not be located in Group 1 security areas (Pit and Hoistway) but should be located in Group 2 security areas (such as machine room, control room)	
127–1 29	2.27.3.3	2013	First paragraph revised: 2.27.3.3 Phase II Emergency In-Car Operation. A three-position ("OFF," "HOLD," and "ON," in that order) key-operated switch that will not change position without a deliberate action by the user, shall be labeled "FIRE OPERATION"; provided in an operating panel in each car; and shall be readily accessible. The label "FIRE OPERATION" lettering shall be a minimum of 5 mm (0.25 in.) high—in-red or a color contrasting with a red background. Text shall be either red on a background which contrasts with red, or a color which contrasts with red on a red background. It shall become effective only when Phase I Emergency Recall Operation is in effect and the car has been returned to the recall level. The switch shall be rotated clockwise to go from "OFF" to "HOLD" to "ON."	Rationale: The current requirement does not forbid red text on a red background if the text color contrasts with the background.	field verifiable
127–1	2.27.3.3.1	2013	Subparagraphs (b)(2), (d), (e), and (n) revised: (b)(2) at the building fire control station fire command center, (d) The opening of power-operated doors shall be controlled only by a continuous-pressure door open button. If the button is released prior to the doors reaching the normal open position, the doors shall automatically reclose. Requirements 2.13.3.3, 2.13.3.4, 2.13.4.2.1(b)(2), and 2.13.4.2.1(c) do not apply. All door open button(s) in the car shall be operational. On cars with multiple entrances, if more than one entrance can be opened at the same floor, separate door open buttons shall be provided for each entrance in conformance with 2.27.3.3.7. (e) Open power-operated doors shall be closed only by continuous pressure on the door close button. If the button is released prior to the doors reaching the fully closed position, horizontally sliding doors shall automatically reopen, and vertically sliding doors shall automatically stop or stop and reopen. Where provided, additional door close button(s) in the car shall be operational. On cars with multiple entrances, if more than one entrance can be opened at the same floor, a separate door close button shall be provided for each entrance in conformance with 2.27.3.3.7.	Rationale: (d) & (e) These requirements are redundant with the requirements of 2.27.3.3.7	

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127–1 29	2.27.3.3.1(n)	2013	Subparagraph (n) revised: 2.27.3.3.1(n) If the normal power supply, emergency power supply, and standby power supply are not available and the elevator is equipped with an alternate source of power that can move the car to a floor, but is insufficient to move the car to all landings, the following requirements of 2.27.3.1.6(n)(1) through (5)-shall apply: (1) The visual signal [2.27.3.1.6(h)] shall illuminate intermittently. (2) A car that is not at a landing shall not start until a car call is entered. After a car call is entered, the car shall move to the closest landing it is capable of reaching. (3) A car stopped at a landing shall not move until normal power, emergency power, or standby power becomes available.	 Power supplies (auxiliary power supplies) are currently being installed which offer limited operating capability when electric elevators lose mainline power. This addressed the requirements for firefighters Phase II emergency in-car 	[I] field verifiable - see FEO checklist [OEM] design req'mt if aux. power provided
130, 131	2.27.3.3.2	2013	Last paragraph added: If the normal power supply, emergency power supply, and standby power supply are not available and the elevator is equipped with an alternate source of power and the "FIRE OPERATION" switch in the car is in the "HOLD" position, the visual signal [2.27.3.1.6(h)] shall illuminate intermittently.		
130, 131	2.27.3.3.4	2013	Last Paragraph added: If the normal power supply, emergency power supply, and standby power supply are not available and the elevator is equipped with an alternate source of power that can move the car to a floor, and the "FIRE OPERATION" switch in the car is in the "OFF" position, the following requirements shall apply: (1) The visual signal [2.27.3.1.6(h)] shall illuminate intermittently. (2) The requirements of 2.27.3.1.6(n)(2) through (5) shall apply.		
132	<u>2.27.4.1</u>	2013	Firefighters' Emergency Operation: Nonautomatic Elevators - Phase I Emergency Recall Operation Second paragraph editorially revised: order), shall be permitted only at the building fire control station fire command center.	Rationale: to provide consistency with NFPA 72	

age	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
.33	2.27.4.2	2013	2.27.4.2 Phase I Emergency Recall Operation by Fire Alarm Initiating Devices. (a) Fire alarm initiating devices shall be installed at each floor served by the elevator, and in the associated machine room, control space, or control room, and elevator hoistway, in the locations listed in 2.27.4.2 (a)(1) - (3), in compliance with the requirements in NFPA 72 or NBCC, whichever is applicable (see Part 9). In jurisdictions enforcing the NBCC, compliance with 2.27.4.2 is not required where the NBCC specifies manual Emergency Recall operations only. (1) at each floor served by the elevator (2) in the associated elevator machine room, machinery space containing a motor controller or driving machine, control space, or control room (3) in the elevator hoistway, when sprinklers are located in those hoistways (b) Phase I Emergency Recall Operation, conforming to 2.27.4.1, shall be initiated when any Phase I Emergency Recall Operation fire alarm initiating device at the elevator lobbies, machine room, control space, control room, or hoistway	Rationale: 1) To clarify that only FAIDs located in/at the elevator lobbies shall cause recall of the associated elevator(s). 2) Improve readability of the code. 3) Motor controllers and machines are supplied with sufficient power to start a fire. We should monitor for smoke in these areas. If the fire initiates in one of these devices, the firefighters should be warned not to use the affected elevator. 4) To harmonize 2.27.4.2 and delete the Canadian exceptions. The requirements for all elevators to have automatic recall have now been harmonized and will be reflected in the next edition of the code. During the process this area of the code was overlooked unintentionally and needs to be brought in line with the requirements for automatic elevators in order to provide an increased level of safety. 5) The detector does not need to be located inside the space, but needs to be able to detect when there is smoke in the space. As an example, an appropriately designed smoke detector placed in an exhaust air duct leading from the control or machinery space could be used to detect fire in the space.	
.33	2.27.5.1	2013	Firefighters' Emergency Operation: Automatic Elevators With Designated-Attendant Operation Revised: 2.27.5.1 When designated-attendant operation is not in effect, elevators shall conform to 2.27.3 and when Occupant Evacuation Operation is provided shall also conform to 2.27.11.6.	Added references to OEO	

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133	2.27.5.2	2013	Subparagraphs (a) and (b) revised: 2.27.5.2 When operated by a designated attendant in the car, except hospital service: (a) elevators parked at the recall level shall conform to 2.27.3 and when Occupant Evacuation Operation is provided shall also conform to 2.27.11.6 without delay; elevators parked at a floor other than the recall level shall conform to 2.27.3.1.6(h). At the completion of a time delay of not less than 10 s and not more than 30 s, elevators parked at a floor away from the recall level shall conform to 2.27.3 and when Occupant Evacuation Operation is provided shall also conform to 2.27.11.6. (b) A moving car shall conform to 2.27.3 and when Occupant Evacuation Operation is provided shall also conform to 2.27.11.6.		
133	<u>2.27.5.3</u>	2013	Editorially revised	Added references to OEO	
133	<u>2.27.6</u>	2013	Firefighters' Emergency Operation, Occupant Evacuation Operation: Inspection Operation Operation Editorially revised	Added references to OEO	
135	Fig. 2.27.8	2013	Switch Keys Added	FEO key drawing updated	
135	2.27.8	2013	Revised	Added references to OEO	
135	<u>2.27.10</u>	2013	Reserved for future use		
135	<u>2.27.11</u>	2013	Occupant Evacuation Operation Added	Occupant Evacuation Operation Added	

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	2.29 Ident	ifica	tion		
139	2.29.1	2013	Revised in its entirety: 2.29.1.3 Where any of the following devices for more than one elevator are located in the same enclosure, such devices or a grouping of devices for one elevator with demarcation to establish that all devices within the demarcation belong to that identified elevator shall be identified with the unique alphabetical or numerical identification letter(s) or number(s) of its associated elevator as assigned in 2.29.1.1: (a) means to trip the governor and/or means to reset the governor from outside the hoistway as permitted by 2.7.6.3.4 (b) display devices or their equivalent as required by 2.7.6.4.1 (c) means to move the car from outside the hoistway as required by 2.7.6.4.3 (d) stop switches as required by 2.7.6.5.2 (e) landing inspection operation transfer switches and operating devices as required by 2.7.6.5.2 (see also 2.26.1.4.4) (f) "CAR DOOR BYPASS" and "HOISTWAY DOOR BYPASS" switches as required by 2.26.1.5 (g) means to manually reset the ascending car over speed detection means as required by 2.19.1.2(a)(4) (h) means to manually reset the unintended motion detection means as required by 2.19.2.2(a)(4) (i) the earthquake reset button or switch as required by 8.4.10.1.1(a)(2)(b)	Split into three parts to clarify which items need marking of a particular size. 2.29.3 added to include identification requirements for items that could cause mal operation of other elevators. When the items listed in 2.29.1.3 are grouped together in the same enclosure they must be clearly identified with a unique alpha or numerical identification.	enclosure they must be clearly
	2.30 Sway	Cor	ntrol Guides		
140	Section 2.30	2013	SWAY CONTROL GUIDES Added SECTION 2.30 SWAY CONTROL GUIDES 2.30.1 General Requirements 2.30.2 Suspension Means 2.30.3 Abrasion Protection 2.30.4 Guiding Members	New requirements when sway control devices are utilized. This section is not intended to mandate the use of sway control guides or establish specific criteria which would trigger the use of these devices.	[I] field verifiable if provided

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	PART 3 3.4 Botto	m and	d Top Clearances and Runbys for Cars and Counterweights		
142	3.4.1.6	2013	Revised: a sign with the words "DANGER LOW CLEARANCE" in a minimum 50mm(2 in.) high letters shall be prominently posted on the hoistway enclosure and shall be visible from within the pit and at the entrance to the pit. The sign shall conform to ANSI Z535.2 and ANSI Z535.4, or CAN/CSA-Z321, whichever is applicable (see Part 9). The sign shall be made of a durable material and shall be securely fastened. The letters and figures shall remain permanently and readily legible.	Signage requirement for pit area outside the refuge space updated to include additional performance requirements.	field verifiable
	3.6 Prote	ction	of Spaces Below Hoistway		
			Spaces, Machine Rooms, Control Spaces, and Control Rooms		
	3.12 Hois	tway	Door Locking Devices, Electric Contacts, and Hoistway Access S		
145	Section 3.12	2013	Title revised HOISTWAY DOOR LOCKING DEVICES, ELECTRIC CONTACTS, AND HOISTWAY ACCESS SWITCHES	Title made more inclusive.	
145	3.12.1	2013	Title and paragraph revised: The requirements of Section 2.12 shall apply.	Section revised to indicate all of 2.12 applies to hydraulic elevators.	OEM design requirement

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	3.17 Car	Safeti	ies, Counterweight Safeties, Plunger Gripper, and Governors		
145	3.17.1.1		Second sentence editorially revised	Reference changed due to renumbering elsewhere.	
146	3.17.3.2	2013	Revised: 3.17.3.2 Means of Application. A plunger gripper shall mechanically grip the plunger when a loss of hydraulic pressure or fluid causes uncontrolled downward motion to occur. The plunger gripper shall be actuated by either a hydraulic means or an electrical means.	Provides clearer language covering the required actuation means.	OEM design requirement
146	3.17.3.2.1	2013	(1) Deleted, and original 3.17.3.2.2 revised and redesignated 3.17.3.2.1: 3.17.3.2.12 Electrical Actuation Means. When electrical means are used to actuate the gripper, the following shall apply. Where an electrical actuation means is provided, it shall comply with the following:	Restated as a requirement when electrical actuation means are used.	
146	3.17.3.2.1	2013	(2) New 3.17.3.2.2 added: 3.17.3.2.2 Inspection and Test Means. Hydraulic or electrical means other than those required in 3.17.3.2 are permitted to actuate the plunger gripper for inspection and test purposes. Electrical inspection and test means are not required to comply with 3.17.3.2.1.	Added requirements for inspection and test means.	[OEM] design permission. Added requirements for inspection and test means of the plunger gripper. [Submitter] to include testing procedure
146	3.17.3.4	2013	Redesignated 3.17.3.4.1, and new 3.17.3.4 added: 3.17.3.4 Normally Retracted Position-Clearance. In the normally retracted position the following shall apply:	Revised to include two requirements	
146	3.17.3.4.2	2013	Added: 3.17.3.4.2 Hydraulic Holding Means. Hydraulic means are permitted to maintain the plunger gripper in the normally retracted position.	This requirement was previously in 3.17.3.2.1 and has been relocated.	
147	3.17.3.8	2013	First paragraph revised: A permanent marking plate shall be securely attached to each plunger gripper. The plate shall be of such material and construction that it is permanent and readily legible. The letters and symbols shall be stamped, etched, cast, or otherwise applied with depressed or raised letters and symbols not less than 3 mm (0.125 in.) 6 mm (0.25 in.) in height, indicating	Allows stamped characters which are depressed. Such characters would require a metal punching tool and a simple rubber ink stamp could not be used.	Sharpies not permitted. See 2019 Section 8.13

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	3.18 Hydr	aulic	Jacks		
147	3.18.1.2	2013	(1) 3.18.1.2.1 revised:	The term "wire ropes" replaced by "suspension members"	
147	3.18.1.2	2013	(2) Original 3.18.1.2.2 and 3.18.1.2.3 deleted, and original 3.18.1.2.4 through 3.18.1.2.8 redesignated as 3.18.1.2.2 through 3.18.1.2.6, respectively	Removed exception permitting one rope per jack. Removed permission to apply clear plastic coating to ropes as it does not correspond with the new suspension means requirements.	field verifiable
149	3.18.3.8.3	2013	Revised: Cylinders buried in the ground shall be provided with protection from corrosion by one or more of the following methods: The following are the specified methods:	Editorially clarified with language similar to requirement 3.19.5.	
149	3.18.6	2013	First paragraph revised: The exposed portion of each hydraulic jack after installation shall be permanently and legibly plainly marked. The marking shall be visible after installation. in a permanent manner The letters and symbols shall be stamped, etched, cast, or otherwise applied with depressed or raised letters and symbols not less than 3 mm (0.125 in.) in height with the following information:	Rationale: This is not a data plate. It was felt that a data tag is not required and drilling holes on the cylinder to attach tag not recommended. It would be preferred to apply the markings directly to the cylinder. The proposed requirements allow stamped characters which are depressed. Such characters would require a metal punching tool and a simple rubber ink stamp could not be used.	Sharpies not permitted
	3.19 Valve	es, Pı	ressure Piping, and Fittings		
150	3.19.2.5	2013	(1) Redesignated 3.19.2.6, and original 3.19.4.5 redesignated 3.18.2.5: 3.19.2.5 3.19.4.5 Pressure Gauge Fittings. A pressure gauge fitting with shutoff-valve shall be provided on jack side of the check valve or immediately adjacent to the hydraulic control valve. When a pressure gauge is permanently installed a shutoff means shall be provided to protect the gauge.	Distinguishes between a shutoff valve (3.19.4.1) versus a small valve solely to protect a pressure gauge.	[I] can be verified in the field. [OEM] design req'mt
150	3.19.2.5	2013	(2) Original 3.19.2.6 redesignated 3.19.2.7		
150	3.19.2.8	2013	(3) New 3.19.2.8 added: 3.19.2.7 Where the pressure piping is outside the machine room, machinery space or hoistway, the pressure piping shall be protected from external damage. Where the pressure piping is buried underground or extends beyond the building containing the hydraulic machine or machine room, the elevator shall be fitted with at least one of the following: (a) a car safety conforming to 3.17.2; (b) an overspeed valve(s) conforming to 3.19.4.7, or (c) a plunger gripper(s) conforming to 3.17.3.	Damage to piping can occur as a result of excavating over buried pipe. A hazard assessment indicates that this occurrence is remote, however it is deemed prudent to protect against this occurrence. The proposed wording will mitigate possible damage as a result of excavation.	[E][I][OEM] Additional protection req'd. Can be field verifiable where buried pipe is used. Test scripts shall be provided to address rapid oil loss if one of the additional means is provided.
151	3.19.4.5	2013	(1) Redesignated 3.19.2.5	 	
151	3.19.4.5		(2) 3.19.4.5 to be reserved for future use	; 	
151	3.19.4.6.2		(1) Subparagraph (c) editorially revised	Revised code book title	
151	3.19.4.6.2	2013	(2) Subparagraph (f) deleted	Moved to 3.19.4.6.3	
151	3.19.4.6.3	2013	Added: (f) The electrical coil data shall be marked on each individual electrical coil data	Rationale: The valve coil is interchangeable based on the voltage, frequency and whether AC/DC is used in the system, therefore should not be on valve body itself but on the coil.	can be field verifiable

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	3.24 Hydr	aulic	Machines and Tanks		
153, 154	3.24.1.1	2013	Revised: The working pressure that is developed in the system shall be measured at the acceptance inspection and test. This pressure shall be legibly and permanently labeled/marked on a data-marking plate. The marking plate that shall be mounted permanently on the hydraulic machine. The marking plate shall be of such material and construction that it is permanent and readily legible. The letters and symbols shall be stamped, etched, cast, or otherwise applied with a height not less than 3 mm (0.125 in.).	Updated requirements for marking plates on hydraulic machines. < Note: Requirement in 2019 is same. (no update to reference to 8.13)	Define marking plate requirements
_	3.25 Term	ninal	Stopping Devices		
153, 154	3.25.1.1	2013	stop automatically, at or near the top and bottom terminal landings, with any load up to and including rated load in the car from any speed attained in normal operation. The normal terminal stopping device shall function independently of the operation of the normal stopping means and the terminal speed-reducing device, where provided, such that the failure of the normal stopping means and/or the failure of the terminal speed-reducing device, where provided, shall not prevent the normal terminal stopping device from functioning as specified except (a) a common actuating means (e.g., a cam, etc.) that is not physically part of the position sensing device of the normal terminal stopping device and the position sensing	changes clarify the intent and scope of the term "function independently" based on past interpretations and accepted practice, without changing the scope of the existing requirements. 3.25.2 Terminal	OEM design requirement

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3.25.2.2	2.1 20	if the normal terminal stopping device fails to cause the car to slow down at the top terminal as intended such that the failure of the normal terminal stopping device shall not prevent the terminal speed-reducing device from functioning as specified except (a) a common actuating means (e.g., a cam, etc.) that is not physically part of the	changes help clarify the intent and scope of the term "operate independently" based on past accepted practice, without changing the scope of the existing requirements	OEM design requirement

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	PART 5				
	Scope				
169	Part 5 Scope	2013	Subparagraphs (k) and (l) added: (k) Requirement 5.11 applies to elevators used in wind turbine towers. (l) Requirement 5.12 applies to outside emergency elevators.		Design and inspection as per written requirements.
	5.1 Inclin	ed Ele	evators		
170	5.1.9	2013	(1) Revised and redesignated 5.1.11.4: 5.1.11.4 Restricted Opening of Hoistway or Car Doors Inclined elevators shall conform to 2.12.52.14.5.7, except that the unlocking zone shall not exceed 152 mm (6 in.) beyond the landing measured in the direction of travel.	References change to new car door restrictor requirement.	
		2013	(2) 5.1.9 to be reserved for future use	1 1 1	
	5.1.10.3.1	2013	Editorially revised	References for hoistway access operation revised	
	5.1.10.3.2	2013	Editorially revised		
	5.1.10.3.3	2013	Editorially revised		
171	5.1.11.4	2013	Redesignated 5.1.11.5, and new 5.1.11.4 added	See 5.1.9	
	5.2 Limite	ed-Us	e/Limited-Application Elevators		
176, 177	5.2.1.2	2013	Pits Revised: 5.2.1.2 Pits. Pits shall conform to 2.2, except as modified by 5.2.1.2.1.	Clarifies that sump pumps are not required since Phase II FEO is prohibited.	[I] - Lula's do not require sum pumps
176, 177	5.2.1.2.1	2013	Added: 5.2.1.2.1. Requirement 2.2.2.5 does not apply.		
176, 177	<u>5.2.1.4.4</u>	2013	Alternative to Top Car Clearance Requirements Subparagraphs (b) and (b)(1) revised: (b) Nonremovable means, independent of the brake, shall be provided to mechanically and electrically prevent upward movement of the car to provide an area above the car for maintenance and inspection, conforming to the following: (1) The means shall prevent upward movement of the car to provide a refuge space conforming to 2.4.12 complying with 5.2.1.4.5.	Clarifies that the brake is not a mechanical means to prevent movement. References new 5.2.1.4.5 that adds language that was previously lost in section 2.	

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176, 177	5.2.1.4.5	2013	Refuge Space on Top of Car Enclosure Added: 5.2.1.4.5 Refuge Space on Top of Car Enclosure 5.2.1.4.5(a) An unobstructed horizontal area of not less than 0.5 m2 (5.4 ft2) shall be provided on top of the car enclosure for refuge space. It shall measure not less than 600 mm (24 in.) on any side. This area shall be permitted to include the space utilized for the top emergency exit [see 2.14.1.5.1(f)]. The minimum vertical distance in the refuge area between the top of the car enclosure and the overhead structure or other obstruction shall be not less than 1 100 mm (43 in.) when the car has reached its maximum upward movement. 5.2.1.4.5(b) In any area outside the refuge space where the vertical clearance between the top of the car enclosure and the overhead structure or other obstructions is less than specified in 5.2.1.4.5(a), the top of the car enclosure shall be clearly marked. The marking shall consist of alternating 100 mm (4 in.) diagonal red and white stripes. In addition, a sign with the words "DANGER LOW CLEARANCE" shall be prominently posted on the crosshead and be visible from the entrance. The sign shall conform to ANSI Z535.2 or CAN/CSA-Z321, whichever is applicable (see Part 9). The sign shall be of such material and construction that the letters and figures stamped, etched, cast, or otherwise applied to the face shall remain permanently and readily legible.	Adds refuges space requirements that were lost due to changes in section 2.	[I] - Lula's rewrote their own top of car space requirements		
176, 177	5.2.1.12	2013	Hoistway Door Locking Devices and Electric Contacts, and Hoistway Access Switches (1) Subparagraph (d) editorially revised	Revised reference for operating speed on Access. No change to speed.			
176, 177	5.2.1.12	2013	(2) Subparagraph (e) deleted	Moved to 5.2.1.14 due to changes in Part 2			
176, 177	<u>5.2.1.14</u>	2013	Car Enclosures, Car Doors, and Car Illumination Subparagraph (m) added from 5.2.1.12(e) and existing (m) deleted (m) Requirement 2.14.5.7. The dimension for the unlocking zone shall be not more than the straight vertical face of the platform guard minus 75 mm (3 in.).	Updated for consistency with Part 2			
180	5.2.2.1	2013	Hydraulic LULA - Bottom and Top Clearances and Runbys Subparagraph (c) revised: (c) The top car clearances shall conform to 3.4.4 or 5.2.1.4.4 or 5.2.2.1.1.	Revised reference to recover language lost in previous revision to Part 3			

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180	5.2.2.1.1	2013	Added: 5.2.2.1.1 Top Car Clearance The top car clearance shall be not less than the sum of the following two items (see Nonmandatory Appendix G): (a) the top car runby (b) the height of the refuge space on top of the car (see 3.4.7) or the clearance required for equipment projecting above the car top or crosshead (see 3.4.5), whichever is greater	Adds language lost in previous revision to Part 3			
180	5.2.2.6	2013	Hydraulic Jacks and Sheaves Revised:	Reference to 3.18.1.2.2 deleted. There is no longer any exceptions to two ropes per jack.			

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	5.3 Privat	e Res	sidence Elevators		
	Section 5.3		Revised		
181	5.3.1.1		Last sentence added		
183	5.3.1.2.3 5.3.1.11.1		Added Revised		
103	5.3.1.11.2		First sentence editorially revised		
184	5.3.1.11.7		Redesignated 5.3.1.11.8, and new 5.3.1.11.7 added	Part 5.3 not adopted in Ontario.	
185	5.3.1.14.1	2013	Revised in its entirety	Part 3.3 not adopted in Ontario.	
187	5.3.1.18.2.1		(1) Subparagraph (a) editorially revised		
			(2) Subparagraph (c) deleted		
			(3) Subparagraph (d) revised and redesignated subpara. (c) (4) Subparagraph (e) redesignated subpara. (d)		
188	5.3.2.4.6		Subparagraph (b) editorially revised		
			sidence Inclined Elevators		
188	Section 5.4	2013	Last sentence in first paragraph added		
189	5.4.2.4		Revised		
	5.4.3.1	2013	Revised		
	5.4.3.2	2013	Revised and redesignated from former		
	5.4.3.3;	2013	original 5.4.3.2 deleted		
	5.4.3.3	2013	Revised and redesignated from former 5.4.3.4		
	5.4.3.4	2013	Deleted		
	5.4.4.1.2	2013	Revised		
	5.4.4.2.1	2013	Revised		>
	5.4.4.3	2013	Title revised		
	5.4.4.3.1	2013	(1) First paragraph revised		
		2013	(2) Subparagraph (b) revised		
	5.4.4.3.2	2013	Revised		
	5.4.4.3.3	2013	Title and paragraph revised		
190	5.4.6.2	2013	Last sentence added		
	5.4.7.6	2013	Revised		
	5.4.7.7	2013	Revised in its entirety		
	5.4.7.9	2013	Title and paragraph revised		
	5.4.8 (1)		Paragraph added		
			(2) 5.4.8.1 revised in its entirety		
			(3) 5.4.8.2 title and paragraph revised	Part 5.4 not adopted in Ontario.	
			(4) 5.4.8.3 title and paragraph revised		
			(5) 5.4.8.4 through 5.4.8.9 deleted		
	5.4.9		(1) Paragraph added		
			(2) 5.4.9.1 and 5.4.9.2 deleted		
191	5.4.11		(1) Paragraph added		
			(2) 5.4.11.1 revised in its entirety		
			(3) 5.4.11.2 and 5.4.11.3 deleted		
	5.4.12		Deleted, and former 5.4.13 redesignated as 5.4.12		
	5.4.12.1		Added		
	5.4.12.2		Redesignated from former 5.4.13.8		
	5.4.12.3		Redesignated from former 5.4.13.10		
	5.4.13	2013	(1) Redesignated as 5.4.12		

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		2013	(2) Original 5.4.13.1 through 5.4.13.7, and 5.4.13.9 deleted		
		2013	(3) New 5.4.13.1 redesignated and revised from original 5.4.14.1		
		2013	(4) Original 5.4.14.2 and 5.4.14.3 deleted		
	5.4.14	2013	(1) Redesignated as 5.4.13		
		2013	(2) Original 5.4.15 through 5.4.15.5.3 redesignated as 5.4.14 through 5.4.14.5.3		
		2013	(3) Newly redesignated 5.4.14.2 revised from former 5.4.15.2		
	5.4.15		Redesignated from former 5.4.16		
	5.7 Speci		rpose Personnel Elevators		
203	5.7.17.2		First sentence editorially revised	Part 5.7 not adopted in Ontario	
	5.11 Wind	d Turk	bine Tower Elevators		
213	Section 5.11	2013	Added	New Part 5.11 Added 5.11.1 to 5.11.29 follow Section 2.1 to 2.28 layout for electric elevator Additional Sections for "welding" (5.11.29), Type Tests (5.11.30), MRR & tests (5.11.31), acceptance and periodic testing (5.11.32 & 5.11.33)	wind turbine tower elevators standard developed and adde in 5.11 of A17.1/B44 2013
	5.12 Outs	ide E	mergency Elevators	Nov. Part 5 42 Added	TWI NIDGG days and
229	Section 5.12	2013	Added	New Part 5.12 Added Intended to assist in evacuation of high buildings Elevator lobbies are separated & have smoke barrier from other floor areas Lobbies hold 25% of floor population, have direct access to exit stairwell Lobbies are pressurized and contain two way voice communication means Remove "In Case if Fire Do Not Use Elevator" signage Trigger of "Other Building FAID's" initiate OEO OEO cars facilitate evacuation of fire floor and 2 floors above & below Variable elevator lobby messaging required (example): Elevator and stairs available for Evacuation. Next Car in 2 minutes. Elevators dedicated to other floor evacuation. Use Stairs to Evacuate. Activation of a required PH1 FAID, ends OEO operation and triggers PH1 recall Inclusion of OEO in a High Building would be initiated by Building Code Req'mt.	provide as FYI: NBCC does no currently recognize OEE. Testing would be to code requirements if OEO operation where to be provided. The building infrastructure needs to be designed to accommodate OEO, therefore must be first driver by the BUILDING CODE req'mts. NEW: The 2022 Edition of A17.1/B44 code will rename OEE elevator to

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	PART 6	1000					
	6.1 Escala	ators	Protection of Floor Openings	Editorially revised due to duplicate language remaining from previous change.			
230	6.1.1.1	2013	Revised: 6.1.1.1 Protection Required. Floor openings for escalators shall be protected against falls, the passage of flame, heat, and/or smoke in accordance with the provisions of the applicable building code (see Part 9). Floor openings adjacent to the entire length of the escalator wellway shall be provided with protection in accordance with the applicable building code (see Part 9).				
231	6.1.3.3.9	2013	Step/Skirt Performance Index	Reference to testing requirement corrected. Was 8.11.4.2.19 changed to			
	0.2.0.0.0		In subpara. (a), second sentence editorially revised	8.6.8.15.19.			
233	6.1.3.4.5	2013	Vertical Height - Handrails Second sentence editorially revised	Reference corrected. Was 6.1.3.6.6, changed to 6.1.1.1.			
235	6.1.3.15	2013	Water Accumulation Title and paragraph revised: 6.1.3.15 Pit Drains Water Accumulation. Permanent provisions shall be made to prevent accumulation of ground water in the pit. Drains and sump pumps, where provided, shall comply with 2.2.2.4 the applicable plumbing code.	Clarifies GROUND WATER that is to be prevented from accumulation.	[I] Esc pit drain is needed only for ground water		
238	6.1.6.3.6	2013	Escalator Skirt Obstruction Device Revised; additional text added: The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provides provision for an automatic reset once per 24hrs of the skirt obstruction device.	[OEM] design permission [I] One automatic reset permitted in a 24 hour period. Can be field verifiable. [Submitter] procedure		
238	6.1.6.3.9	2013	Step Upthrust Device Revised; additional text added: The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provides provision for an automatic reset once per 24hrs of the step upthrust device.	[OEM] design permission [I] One automatic reset permitted in a 24 hour period. Can be field verifiable. [Submitter] procedure		
239	6.1.6.3.12	2013	Handrail Entry Device (1) In first paragraph, second sentence revised: A handrail entry device shall be provided at each newel. It shall be operative in the newels in which the handrail enters the balustrade. It shall cause the escalator be of the manually reset type and shall cause the escalator to stop by removing power from the driving-machine motor and brake.	Manual reset removed and moved later in requirement.			

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239	6.1.6.3.12	2013	Handrail Entry Device (2) Last paragraph revised: The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provides provision for manual reset or automatic reset once per 24hrs of the handrail entry device.	[OEM] design permission [I] One automatic reset permitted in a 24 hour period. Can be field verifiable. [Submitter] procedure
239	6.1.6.4	2013	Handrail Speed Monitoring Device Revised: The device shall be of the manual reset type. The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provides provision for manual reset or automatic reset once per 24hrs of the handrail speed monitoring device.	[OEM] design permission [I] One automatic reset permitted in a 24 hour period. Can be field verifiable. [Submitter] procedure
240	6.1.6.9.2	2013	Signs or Graphics Relating to Safety Title and paragraph revised: 6.1.6.9.2 Additional Signs or Graphics Relating to Safety. Signs in addition to those required by 6.1.6.9.1 relating to cautions or warnings applying to escalator passengers, when provided, shall be in a readily visible location, and limited to conveying any additional cautions and/or warnings. The additional signs shall be prohibited in the area starting from 3 000 mm (118 in.) horizontally outward from the end of the newel and to the point where the steps start to move vertically. Its location shall not impede or otherwise cause persons about to board the escalator to suddenly pause or stop. The sign shall comply with ANSI Z535.2 or CAN/CSA Z321, whichever is applicable (see Part 9). Signs or graphics relating to safety shall not be permitted on the escalator in such a manner nor adjacent to the escalator in such a manner that obstructs boarding passenger view of the signs required in 6.1.6.9.1, physically obstructs passenger flow at the landings as specified in the safety zone (see 6.1.3.6.4), nor obstructs or reduces passenger access to the handrails. They shall be legible and shall not be distracting, create passenger flow hazards, or impair function of safety devices.	- obstructs boarding passenger view of the signs - physically obstructs passenger flow at the landings - obstructs or reduces passenger access to the handrails	[OEM] Requirements for safety signs

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240	6.1.6.9.3	2013	Additional Signs or Graphics Added: 6.1.6.9.3 Additional Signs or Graphics. Signs or graphics other than those specified in 6.1.6.9.1 and 6.1.6.9.2 shall not be permitted adjacent to the escalator in such a manner that obstructs boarding passenger view of the signs required in 6.1.6.9.1, obstructs or reduces passenger access to the handrails, within the safety zone (see 6.1.3.6.4), nor on the escalator except for signs, graphics, or markings required by this Code, manufacturer's identification, owner's identification, step riser signs or graphics, <note, are="" permitted="" these=""> and handrail signs or graphics <note, are="" permitted="" these=""> which are permitted on the escalator. They shall not be distracting, create passenger flow hazards, or impair function of safety devices.</note,></note,>	< balloting is being circulated (2022 code) to revise signage again, which could potentially dis-allow current signage permissions.	[OEM] Permission for OTHER signs, including: step riser signs or graphics, handrail signs or graphics
243	6.1.8.2.2	2013	Outdoor Escalators - Precipitation Revised: 6.1.8.2.2 Drains suitable for all weather conditions shall be provided to prevent the accumulation of water where ground water and runoff can collect within the equipment.	Clarify the type of water that is to be prevent from accumulating in an outdoor escalator pit.	Pit drain only required to prevent GROUND Water, not spills or sprinklers
	6.2 Movin	g Wa	alks		
250	6.2.6.3.10	2013	(1) In first paragraph, third sentence revised: It shall cause the moving walk be of the manual-reset type and shall cause the moving walk to stop by removing power from the driving-machine motor and brake.	Manual reset removed and moved later in requirement.	
250	6.2.6.3.10	2013	(2) Last paragraph revised: The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provision for manual reset or automatic reset once per 24hrs of the handrail entry device.	OEM Design Permission Can be field verifiable via test script by OEM or submitter.

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251	6.2.6.4	2013	Revised: The device shall be of the manual reset type. The device shall be of the manual reset type or it shall be permitted to automatically reset not more than one time within 24 hours of operation and thereafter require a manual reset before the next restart. Interruption of power during operation should not cause the device to lose the status of the timer nor the count of events.	Provision for manual reset or automatic reset once per 24hrs of the handrail speed monitoring device.	OEM Design Permission Can be field verifiable via test script by OEM or submitter.
251	6.2.6.8.2	2013	Title and paragraph revised: 6.2.6.8.2 Additional Signs or Graphics Relating to Safety. Signs in addition to those required by 6.2.3.8.1 relating to cautions or warnings applying to moving walk-passengers, when provided, shall be in a readily visible location, and limited to-conveying any additional cautions and/or warnings. The additional signs shall be-prohibited in the area starting from 3 000 mm (118 in.) horizontally outward from the end of the newel along the path of travel and to a point 900 mm (36 in.) from the tread-comb intersection along the treadway. Its location shall not impede or otherwise cause persons about to board the moving walk to suddenly pause or stop. The sign shall comply with ANSI Z535.2 or CAN/CSA Z321, whichever isapplicable (see Part 9). Signs or graphics relating to safety shall not be permitted on the moving walk in such a manner nor adjacent to a moving walk in such a manner that obstructs boarding passenger view of the signs required in 6.2.6.8.1, physically obstructs passenger flow at the landings as specified in the safety zone (see 6.2.3.8.4) nor obstructs or reduces passenger access to the handrails. They shall be legible and shall not be distracting, create passenger flow hazards, or impair function of safety devices.		can be field verifiable
251	6.2.6.8.3	2013	Added: 6.2.6.8.3 Additional Signs or Graphics. Signs or graphics other than those specified in 6.2.6.8.1 and 6.2.6.8.2 shall not be permitted adjacent to the walk in such a manner that obstructs boarding passenger view of the signs required in 6.2.6.9.1, obstructs or reduces passenger access to the handrails, within the safety zone, nor on the moving walk except for signs, graphics, or markings required by this Code, manufacturer's identification, owner's identification, and handrail signs or graphics which are permitted on the moving walk. They shall not be distracting, create passenger flow hazards, or impair function of safety devices.	and from an escalator/moving walk steps/pallets, handrails, or obstructs view of	can be field verifiable
253	6.2.8.2.2	2013	Revised: 6.2.8.2.2 Drains suitable for all weather conditions shall be provided to prevent the accumulation of water where ground water and runoff can collect within the equipment.	Clarify the type of water that is to be prevent from accumulating in an outdoor escalator pit.	

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	PART 7				
	7.1 POWE	ER DU	JMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES		
256	7.1.11.4	2013	Revised	Portion of text moved to 7.1.11.4.1	
	7.1.11.4.1		Text from 7.1.11.4: The bottom of the hoistway-door opening shall be not less than 600 mm (24 in.) above the floor, except for power dumbwaiters applications conforming to 7.1.12.1.2 or 7.1.12.1.3.	Text from 7.1.11.4 above maintaining existing requirement.	
			Added:	New requirement to establish a clearance for between the car side of hoistway	[OEM] [I]Clearance between
	7.1.11.4.2	2013	Horizontally sliding or swinging doors shall be so located that the distance from the hoistway face of the doors to the edge of the hoistway landing sill, measured from the face of the door section nearest to the car, shall not be more than 75 mm (3 in.) for horizontally sliding or single-section swinging doors.	doors and the hoistway landing sill edge.	car and hoistway door limited to 75mm (3")
258	7.1.12.4	2013	Subparagraph (b) revised: Hoistway access switches shall be permitted at the top and bottom landing. Requirement 2.12.7 does not apply. Where hoistway access switches are provided, they shall conform to the following requirements: (b) Requirement 2.12.7.3 applies, except 2.12.7.3.2(b) does not apply.	Clause reference changed due to renumber of requirements for Hoistway Access Operation. Redundant key requirements removed.	
	7.2 Electr	ic Du	Imbwaiters without Automatic Transfer Devices		
263	7.2.12		Second sentence editorially revised. Clause reference changed.	Revised due to elimination of side emergency exit in previous code edition (B44-	
264	7.2.12.16– 7.2.12.39		Original 7.2.12.16 deleted, and 7.2.12.17 through 7.2.12.39 redesignated as 7.2.12.16 through 7.2.12.38, respectively.	2000 U1-2002).	
	7.3 Hydra	ulic E	Dumbwaiters w/o Automatic Transfer Devices		
265	7.3.11.4.1	2013	Subparagraph (c) editorially revised. Clause reference revised.	Clause reference revised due to changes in 3.18.	
	7.4 Materi	ial Lif	ts w/o Automatic Transfer Devices		
269, 270	7.4.14.2	2013	In fourth sentence, reference in parentheses editorially revised	Revised due to elimination of side emergency exit in previous code edition (B44-2000 U1-2002).	
	7.4.14.4	2013	Deleted, and original 7.4.14.5 through 7.4.14.7 redesignated as 7.4.14.4 through 7.4.14.6, respectively	Moved to 7.4.15.7 to align with changes made in Part 2 for door restrictors.	
	7.4.15.7	2013	Added		

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	7.5 Electr	ic Ma	aterial Lifts w/o Automatic Transfer Devices				
273	7.5.12.1	2013	Editorially revised. Clause reference changed.	Revised due to elimination of side emergency exit in previous code edition (B44-			
274	7.5.12.1.12– 7.5.12.1.24	2013	(1) Original 7.5.12.1.12 deleted, and 7.5.12.1.13 through 7.5.12.1.24 redesignated as 7.5.12.1.12 through 7.5.12.1.23, respectively	2000 U1-2002).			
274	7.5.12.1.12– 7.5.12.1.24	2013	(2) In newly redesignated 7.5.12.1.15, subpara. (g) editorially revised. Clause reference changed.				
274	7.5.12.2	2013	Editorially revised. Clause reference changed.				
275	7.5.12.2.15–7. 5.12.2.34	2013	Original 7.5.12.2.15 deleted, and 7.5.12.2.16 through 7.5.12.2.34 redesignated as 7.5.12.2.15 through 7.5.12.2.33, respectively				
	7.6 Hydra	ulic N	Material Lifts w/o Automatic Transfer Devices				
276	7.6.8.1	2013	Subparagraphs (a) and (b) editorially revised	Revised due to elimination of side emergency exit in previous code edition (B44-			
	7.6.8.3	2013	Subparagraph (e) editorially revised	2000 U1-2002).			

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	PART 8 8.1 Secur	itv			
	0.1 00001	ity	Subparagraph (n) editorially revised	Revised reference; was 2.12.7.3.1 change to 2.12.7.3.3 (hoistway access switch)	
280	8.1.2	2013			
	8.2 Desig	n Dat	a and Formulas		
284	8.2.2.5.1	2013	In subparas. (a) through (c), all equations containing variable E editorially revised	Dimension used to calculate stress in car frame stiles.	
	0.2.2.3.1		to variable B		
285	Fig. 8.2.2.5.1	2013	In all instances, variable E editorially revised to variable B		
			g Tests, Type Tests, and Certification		
300	8.3.1.3.1		Subparagraph (h) editorially revised	Revised code book title	
	8.3.1.3.2		Editorially revised	Revised code book title	
	8.4 Eleva	tor Se	eismic Requirements (1) Title revised"	Building codes no longer use seismic risk zones.	Section 8.4 Introductory
308, 309	Section 8.4	2013	SECTION 8.4 ELEVATOR SAFETY SEISMIC REQUIREMENTS FOR SEISMIC RISK ZONE 2 ORGREATER (2) Paragraph revised in its entirety	8.4(a), (b) and (c) have been added/ revised to ensure full coverage of all applicable enforced building codes. Changes affect design calculations only and do not add any new features for inspection. 8.4(a)(3) now includes requirements for post-disaster buildings. From OBC: Post-disaster building means a building that is essential to the provision of services in the event of a disaster, and includes, (a) hospitals, emergency treatment facilities and blood banks, (b) telephone exchanges, (c) power generating stations and electrical substations, (d) control centres for land transportation, (e) public water treatment and storage facilities,	Rationale: All requirements in Section 8.4 have been revised to include seismic force levels as specified in the latest building codes in the US (IBC) and Canada (NBCC). Existing force levels related to seismic zones and Av/Zv levels also remain to ensure full coverage of all applicable enforced building codes. Direction is provided as to which levels apply for a given elevator design application.
	8.4.2.1 8.4.2.2 8.4.2.3 8.4.2.3.1 8.4.2.3.2	2013 2013 2013	Title and paragraph revised Title and paragraph revised Title revised Revised Revised	(f) water and sewage pumping stations, (g) emergency response facilities, (h) fire, rescue and police stations, (i) storage facilities for vehicles or boats used for fire, rescue and police purposes, and (j) communications facilities, including radio and television stations.	[Submitter] to advise when seismic requirements apply - new and alterations

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	8.4.2.3.4	2013	Added For areas not utilizing Seismic Zones, the Non-structural Component Anchorage, as defined by IBC/ASCE-7, shall be in conformance with the requirements of the governing building code.			
310	8.4.5.2.1	2013	Revised			
311	8.4.6	2013	Revised in its entirety			
	8.4.7.1.1		Revised			
	8.4.7.1.3		Deleted, and original 8.4.7.1.4 redesignated as 8.4.7.1.3			
	8.4.7.2.2		Revised			
	8.4.8.1.1	2013	Added 8.4.8.1.1 Elevator Guide Rail Load Distribution: The load distribution to the guide rails due to the inertial effects of the car and counterweight on their respective guide rails shall be determined as follows:			
	8.4.8.2.1	2013	Revised in its entirety			
	8.4.8.2.2		Definitions of nomenclatures W and Wa editorially revised			
312	Fig. 8.4.8.2-1	2013	Revised			
313	Fig. 8.4.8.2-2	2013	Revised			
314	Fig. 8.4.8.2-3	2013	Revised			
315	Fig. 8.4.8.2-4	2013	Revised			
316	Fig. 8.4.8.2-5	2013	Revised			
317	Fig. 8.4.8.2-6	2013	Revised			
318	Fig. 8.4.8.2-7	2013	Revised			
320		2013	Added 8.4.8.2.6 Rail Forces (a) The horizontal seismic forces used to determine guide rail stresses and deflections are: (1) For jurisdictions enforcing Seismic Zones (a) 1/2 Wp (zone 3 or greater); or (b) 1/4 Wp (zone 2). (2) For jurisdictions enforcing IBC/NBCC (a) Fp when calculating deflection (b) 0.7Fp when calculating stress			
	8.4.8.3		Revised in its entirety			
	8.4.8.4		Revised in its entirety			
321–3 24	8.4.8.7	2013	Revised in its entirety			
	8.4.8.8	2013	Second paragraph editorially revised			
	8.4.8.9		First sentence editorially revised			
	8.4.8.9.1	2013	Subparagraphs (a) and (b) revised in their entirety			
	8.4.8.9.2	2013	Subparagraphs (a) and (b) revised in their entirety			

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	8.4.9.1	2013	Revised		
	8.4.10.1	2013	Revised		
	8.4.10.1.1	2013	Subparagraphs (a)(1) and (a)(2) revised		
	Table 8.4.8.7	2013	Revised in its entirety		
325	Fig. 8.4.10.1.1	2013	Revised		
327	8.4.11.2.1	2013	Title and paragraph revised		
	8.4.11.3.1	2013	Editorially revised		
	8.4.11.5.2	2013	Revised		
	8.4.11.9	2013	Revised		
	8.4.11.12	2013	Revised		
328	8.4.11.15	2013	Second sentence editorially revised		
	8.4.11.15.1	2013	(1) First paragraph revised		
		2013	(2) Subparagraphs (a) and (b) revised in their entirety		
	8.4.11.15.2	2013	(1) First paragraph revised		
			(2) Subparagraphs (a) and (b) revised in their entirety		
329–3 31	8.4.12.1.1	2013	Revised in its entirety		
	8.4.12.1.2	2013	Revised in its entirety		
	8.4.12.2.1	2013	Subparagraphs (a) and (b) revised in their entirety		
	8.4.12.2.2	2013	Subparagraphs (a) and (b) revised in their entirety		
	8.4.13	2013	(1) Title revised		
		,	(2) Paragraph added		
	8.4.13.1		Revised in its entirety		
332, 333	8.4.13.2	2013	Revised in its entirety		
	8.4.14	2013	Added 8.4.14 Elevator Seismic Design Force 8.4.14.1 Component Seismic Force Level (Strength Design). The seismic force shall be computed per requirements of IBC/ASCE7, or NBCC 2005 or later editions, in accordance with the applicable building code		[Arch][Submitter] to advise or applicability of seismic design
	8.4.15	2013	Added 8.4.15 Component Operating Weight (Wp) The component operating weight Wp shall be one of the following:		

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	8.6 Mainte	enanc	ce Repair Replacement and Tests		
	8.6.	2013	At the same time adopted the requirements o	io adopted the requirements of A17.1/B44 2010 code, f Section 8.6 from the (then unpublished / soon to print) 2013 edition of code w in 2013 where in effect in ONTARIO as of May 1, 2013.	s.
334	Section 8.6	2013	Paragraph revised: Requirement 8.6 applies to maintenance, repairs, replacements, and testing. Maintenance, repair and replacement shall be performed to provide compliance with the code applicable at the time of installation or alteration.	Clarifies scope of 8.6	None
335–3 37	8.6.1.1.3	2013	Revised	Language change to state equipment plates, additional sections to see added	None
	8.6.1.2.1	2013	Revised in its entirety	Greater detail in what is expected from MCP MCP provided by the person(s) and/ or firm maintaining the equipment be viewable on-site by elevator personnel at all times maintained remotely from the machine room, machinery spaceMCP either in hard copy or in electronic format shall be posted on the controller	Ensure MCP is on site if electronic means to access or site
	8.6.1.2.2	2013	necessary for test in hard copy for each unit for elevator personnel. The documentation for (d) be on-site and available to the specified personal (a) Up-to-date wiring diagrams detailing circuits of all electrical protective (b) Procedures for inspections and tests not described in ASME A17.2 and repairs, replacements, and adjustments, as follows: (1) all procedures specifically identified in the Code as required to be (2) unique maintenance procedures or methods required for inspection circuits. (3) unique maintenance procedures or methods required for inspection shall be provided by the manufacturer or installer	re devices and critical operating circuits. Industrial distribution of the devices and critical operating circuits.	Ensure (a) up to date wiring diagrams (b) inspection procedures and (c) check out procedures are written and permanently on site (d) on site and available to appropriate persons

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	8.6.1.2.2	2013	 (c) Written checkout procedures (1) to demonstrate E/E/PES function as intended (2) for elevator leveling speed with open doors (3) for hydraulic elevator overspeed valve (4) for escalator reversal stopping device (5) for escalator handrail retarding force (d) Written procedures for the following: (1) evacuation procedures for elevators by authorized persons and er (2) the procedure for cleaning of a car and hoistway transparent encl 		
	8.6.1.4	2013	posted on the controller or at the means necessary for test (see 2.7.6.4)	for locating the maintenance records of each unit, for viewing on-site, shall be The provided instructions shall be permanently legible with characters a minimum ost recent 5 yr. or from the date of installation or adoption of this Code edition, sting maintenance records up to 5 yr. shall be retained.	Ensure on site and posted on controller minimum 3 mm height characters. Kept for 5 years or adoption of this code whichever is less
	8.6.1.6.3	2013	with the operation of the equipment. (b) Temporary wiring and insulators or blocks in the armatures or poles are prohibited.	dbook" for recommended minimum jumper control procedures. mpliance with applicable Code requirements (see 8.6.1.1.2).	Controller needs to be cleane when necessary, jumpers only used for maintenance and testing, not wire for fuses.
	8.6.1.7.2	2013	Title and paragraph revised	8.6.1.7.2 Periodic Test Record. A periodic test record for all periodic tests containing the applicable Code requirement(s) and date(s) performed, and the name of the person or firm performing the test, shall be installed to be readily visible and adjacent to or securely attached to the controller of each unit in the form of a metal tag or other format designated by and acceptable to the authority having jurisdiction. If any of the alternative test methods contained in 8.6.4.20 were performed, then the test tag must indicate alternative testing was utilized for the applicable requirement.	See results of Log Book

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338	8.6.2.6	2013	Added	Repairs Involving SIL Rated Device(s). SIL rated device(s) used to satisfy 2.26.4.3.2, 2.26.8.2, 2.26.9.3.2(b), 2.26.9.5.1(b), and 2.26.9.6.1(b) shall (a) not be repaired in the field (b) be permitted to be repaired in accordance with the provisions for repair where included in the listing/ certification (c) not be affected by other repair(s) such that the listing/certification is invalidated	See repairs noted in Log Book May be more of an investigation requirement during incident when getting call back logs
	8.6.3.4.6	2013	Editorially revised	Revised reference clause	No action required
	8.6.3.5	2013	Second paragraph editorially revised	editorial	No action required
340	8.6.3.13	2013	Added	Fluorescent demarcation lights can be replaced with an type of lights except incandescent	Verify during inspection both periodic and initial
	8.6.3.14	2013	Added	8.6.3.14 Replacements Involving SIL Rated Device(s) (see 1.3) (a) A SIL rated device (see 1.3) used to satisfy 2.26.4.3.2, 2.26.8.2, 2.26.9.3.2(b), 2.26.9.5.1(b), or 2.26.9.6.1(b) shall not be affected by other replacement(s) such that the listing/certification is invalidated. (b) Where a SIL rated device (see 1.3) used to satisfy 2.26.4.3.2, 2.26.8.2, 2.26.9.3.2(b), 2.26.9.5.1(b), or 2.26.9.6.1(b) is replaced, it shall be considered a replacement only when the replacement device is the original manufacturer's listed/certified SIL rated device or the original manufacturer 's listed/certified SIL rated replacement device; otherwise, it shall be considered an alteration [see 8.7.1.9(d)]. (c) Where a non-SIL rated device used to satisfy 2.26.4.3.1, 2.26.8.2, 2.26.9.32(a), 2.26.9.5.1(a), or 2.26.9.6.1(a) is replaced with a SIL rated device, it shall be considered an alteration [see 8.7.1.9(c)].	If non-SIL device replaced with SIL device it is considered alteration
	8.6.4.1.3	2013	Revised	8.6.4.1.3 Equal tension shall be maintained between individual suspension members in each set. Suspension members are considered to be equally tensioned when the smallest tension measured is within 10% of the highest tension measured. When suspension member tension is checked or adjusted, an anti-rotation device conforming to the requirements of 2.20.9.8 shall be permitted.	Inspector verify equal tension in the field Contractor verify equal tension in the field
	8.6.4.3.2	2013	Subparagraph (b) editorially revised	Reference clause added	No action required
	8.6.4.3.3		Editorially revised	Reference clause changed	No action required
	8.6.4.3.5	2013	Second sentence editorially revised	Reference clause changed	No action required

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341	8.6.4.6.2	2013	Last sentence added A test complying with 8.6.4.20.4 shall be performed was added.	Load test or alternative test completed if the brake is adjusted or a part is changed	Inspector would check log book to ensure it is updated this would be accepted as new anniversary date because it is not related to creep
	8.6.4.10.2	2013	Revised in its entirety (b) The suspension wire ropes shall conform to 2.20.7 was added. 2.20.7 Rope Turns on Winding Drums Suspension wire ropes of winding-drum machines shall have not less than one full turn of the rope on the drum when the car is resting on the fully compressed buffers. Winding-drum machines shall not have multiple layers of suspension wire ropes.	Procedure to resocket or move rope fastenings on winding drum	Verify completion in Log Book, inspect device for compliance of more than one lay when car is at top/bottom landing
342	8.6.4.13.1	2013	Subparagraph (I) revised door restrictors, where required (I) means to restrict hoistway or car door opening and expiration date for the alternate power source, where required was added	Maintenance of Door systems car and landing, means to restrict hoistway or car door opening and expiration date for the alternate power source, where required added	Inspector to verify expiration date of the alternate power source
	8.6.4.19.2	2013	Subparagraph (b)(2) editorially revised	Revised reference to proper Item number	No action required
343–3 46	8.6.4.19.4	2013	Title and paragraph revised	Slack-Rope Devices and Stop Motion Switch on Winding Drum Machines.	No additional action required
	8.6.4.19.5	2013	Editorially revised	(Items 2.20, 2.28.2.1, 3.5.2.1, and 3.6.2.1). 2.28.2.1 reference added	No action required
	8.6.4.19.6	2013	Revised 8.6.4.19.6 Firefighters' Emergency Operation. Firefighters' Emergency Operation (Phase I and II) shall be tested to determine conformance with the applicable requirements. Phase I recall shall be tested by individually activating fire alarm initiating device inputs to the elevator control, the three-position key switch at the designated landing and, where provided, the two-position switch at the building fire control station (Part 6).		Clarifies test can be completed by initiating inputs to the controller (not simulation - refer to Part 6) Inspector to verify that it is signed off in log book
	8.6.4.19.10	2013	Revised in its entirety 8.6.4.19.10 Functional Safety of SIL Rated Device(s). Verify SIL rated device(s) used to satisfy 2.26.4.3.2, 2.26.8.2, 2.26.9.3.2(b), 2.26.9.5.1(b), and 2.26.9.6.1(b) are as identified on wiring diagrams (8.6.1.6.3) with part identification, SIL, and certification identification information. The person or firm installing the equipment shall provide a written checkout procedure and demonstrate that SIL rated devices, safety functions (see Table 2.26.4.3.2), and related circuits operate as intended.		Engineering shall verify SIL rated components are verified at design stage on electrical drawings Inspector to verify drawing are on site

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	8.6.4.19.11	2013	8.6.4.19.11 Ascending Car Overspeed Protection and Unintended Car Movement Devices (a) Examinations. All working parts of ascending car overspeed protection and unintended car movement devices shall be examined to determine that they are in satisfactory operating condition and that they conform to the applicable requirements of 2.19.1.2(a) and 2.19.2.2(a). (b) Tests. Ascending car overspeed protection shall be subjected to tests with no load in the car at the slowest operating speed in the up direction. (c) Tests. Unintended car movement shall be subjected to tests with no load in the car at the slowest operating speed in the up direction.	(b) and (c) added to clarify speed and load	Inspector to verify log book completion if required Contractor complete or to mark as N/A if not present
	8.6.4.19.12	2013	Subparagraph (b) editorially revised	revised tp correct Item number (b) an alternative test provided in the Maintenance Control Program [see 8.6.1.2.1(f)]	No action required
	8.6.4.19.14	2013	Added 8.6.4.19.14 Occupant Evacuation Operation. Occupant Evacuation Operation shall be tested to determine conformance with the applicable requirements. Deficiencies shall be corrected. A record of findings shall be available to the building owner and the authority having jurisdiction.	OEO Cat 1 testing requirements added	Currently not referenced in OBC, if provided Inspector to verify log book completion Contractor complete or to mark as N/A if not present
	8.6.4.19.15	2013	Added 8.6.4.19.15 Emergency Communications. Emergency communications shall be tested to determine conformance with the applicable requirements (Item 1.6).	Emergency communications Cat 1 testing added	Inspector to verify log book completion if required Contractor complete or to mark as N/A if not present
	8.6.4.19.16	2013	Added 8.6.4.19.16 Means to Restrict Hoistway or Car Door Opening. Means to restrict hoistway or car door opening shall be tested to determine conformance with the applicable requirements (Item 1.18).	Means to Restrict Hoistway or Car Door Opening Cat 1 testing added	Inspector to verify log book completion if required Contractor to mark as N/A if not present

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e	(see update)	Yr		Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	8.6.4.20.1	2013	Revised in its entirety 8.6.4.20.1 Car and Counterweight Safeties. Types A, B, and C car and counterweight safeties shall be tested in accordance with 8.6.4.20.1(a) or subject to approval by the authority having jurisdiction with 8.6.4.20.1(b). (a) Rated Load and Rated Speed Test. Car safeties, except those operating on wood guide rails, and their governors, shall be tested with rated load in the car. Counterweight safety tests shall be made with no load in the car. Tests shall be made by tripping the governor by hand at the rated speed. The following operational conditions shall be checked (Item 2.29.2): (1) Type B safeties shall stop the car with the rated load within the required range of stopping distances for which the governor is tripped (Item 2.29.2) and the level of the platform checked for conformance to 2.17.9.2. (2) For Type A safeties and Type A safety parts of Type C safeties, there shall be sufficient travel of the safety rollers or dogs remaining after the test to bring the car and its rated load to rest on safety application at governor tripping speed. The level of the platform shall be checked for conformance to 2.17.9.2.	This section was rewritten however biggest change is the addition to allow alternative testing 8.6.4.20.1(b)(1)	Inspector to verify log book completion if required Contractor to mark as N/A if not present ensure test tag is present and complete
	8.6.4.20.1	2013	(b) Alternative Test Method for Car Safeties. The alternative test methods shall comply with 8.6.11.10 and the following: (1) The testing of safeties with any load in the car, centered on each quarter of the platform symmetrically with relation to the centerlines of the platform from no load up to rated load, and at not less than rated speed shall be permitted provided that (a) when the alternative test is performed, the test shall stop the car and verify that the safeties will be capable of stopping an over speeding car in accordance with the requirements of Section 2.17 applicable to the specific classification of safeties, and (b) when applied, the method shall verify that the safeties perform or are capable of performing in compliance with 8.6.4.20.1(a) and the platform shall not be out of level more than 30 mm/m (0.36 in./ft) in any direction. (2) A test tag as required in 8.6.1.7.2 shall be provided.	This section was rewritten however biggest change is the addition to allow alternative testing 8.6.4.20.1(b)(1)	

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	8.6.4.20.3	2013	8.6.4.20.3 Oil Buffers		
	8.6.4.20.4	2013	applicable requirements, in accordance with 8.6.4.20.4(a), or subject to with 8.6.4.20.4(b). For elevators installed under ASME A17.1-2000/CSA B44-00 and later edmarking plate. or firm that installed it. (See also 8.6.1.7.2, Periodic Test Tags.) (a) Test with load per Table 8.6.4.20.4. Place the load as shown in Table this load. With no load in the car the driving-machine brake shall hold the	ght elevators, the driving machine brake shall be tested for compliance with	Inspector to verify log book completion

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	8.6.4.20.4	2013	(1) Any method of verifying conformity of the driving-machine be permitted, including the testing method of the brakes with or we applied the method verifies that the brake performs or is capable (2) A test tag as required in 8.6.1.7.2 shall be provided. Upon completion of the test, the means of adjusting the holding seal shall bear or otherwise attach the identification of the personal test with load per Table 8.6.4.20.4. Place the load as shown this load. With no load in the car the driving-machine brake shall		Inspector to verify log book completion
	8.6.4.20.5	2013	Text deleted; reserved for future use	Empty for future usage	None
	8.6.4.20.7	2013	Revised	Following verbiage was deleted now states to as per item 1.10.2 of A17.2 "when the car is at rest at the landing, or in the landing zone, except, in the case of static control, check that power shall not be applied until the car is within 300 mm (12 in.) of the landing (Item 1.10.2)."	Inspector to verify log book completion
	8.6.4.20.10	2013	8.6.4.20.10 Braking System, Traction, and Traction Limits. Traction and traction limits on traction elevators shall be verified the authority having jurisdiction, with 8.6.4.20.10(b). (a) Dynamic Stopping Test. Traction elevators shall be tested to (1) during an emergency stop initiated by any of the electrical processed with Type C car safeties) at the rated speed in the down discarrying 125% of their rated load, or with freight elevators carry 2.24.2.3.3); and (2) if either the car or the counterweight bottoms on its buffers	rotective device(s) listed in 2.26.2 (except 2.26.2.13) (except buffer switches for oil buffers rection, with passenger elevators and freight elevators permitted to carry passengers ring their rated load, cars shall safely stop and hold the load (see 2.24.2.3.1, 2.24.2.3.2 and or becomes otherwise immovable, one of the following shall occur (see 2.24.2.3.4): drive sheave and not allow the car or counterweight to be raised; or	Inspector to verify log book completion Contractor to update logbook to include new requirement, ensure test tag is present and complete

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	8.6.4.20.10	2013	and hold the car, and where required by 2.16.2.2.4(c) shall re-level the car (b) Alternative Test Method for Braking System, Traction, and Traction Li (1) Other methods for verifying traction for compliance with 2.24.2.3, an method complies with the following: (a) When applied, the method shall verify that the elevator traction systems requirements of 8.6.4.20.10(a).	imits. Alternative test methods shall comply with 8.6.11.10 and the following:	Inspector to verify log book completion Contractor to update logbook to include new requirement, ensure test tag is present and complete
	8.6.4.22	2012	8.6.4.22 Maintenance of Seismic Devices 8.6.4.22.1 A seismic switch, where provided, shall be maintained in accordance with the manufacturer's recommendations. 8.6.4.22.2 The counterweight displacement switch components, where provided, shall be (a) maintained in accordance with the manufacturer's recommendations (b) properly aligned and tensioned and kept free of dirt, debris, and other contaminants that may interfere with proper operation	Maintenance of Seismic Devices added to address the maintenance of seismic devices. b) Grounding wire tension, ring misalignment, dirt, debris and contaminates on the stationary wire can interfere with proper operation of the counterweight derailment device. The stationary wire should be kept clean.	Inspector to verify log book completion if required Contractor to add new section to log book mark as N/A if not present
	8.6.5.9	2013	Editorially revised	section referral was updated 8.6.5.14.1.	None
347	8.6.5.13	2013	First sentence added		None

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	8.6.5.14.1	2013	8.6.5.14.1 Relief Valve Verification of Setting and System Pressure Test. The relief valve setting shall be tested to determine that it will bypass the full output of the pump before the pressure exceeds 150% of the working pressure. Once this is established, test the entire system to ensure that it will withstand this pressure. It shall be resealed if the relief valve setting is altered or if the seal is broken (Item 2.31).	Added the once set at 150% over pressure the entire system shall be tested to this pressure	Inspector to verify log book completion, Contractor to train staff on new requirement
	8.6.5.14.7	2013	Editorially revised	Section referral was updated 3.18.1.2.5	None
348	8.6.5.17		Added 8.6.5.17 Plunger Gripper. Plunger grippers, where provided, shall be maintained in accordance with the manufacturer's recommendations.	Requirement added to maintain plunger grippers	Inspector to verify log book completion if required Contractor to update logbook to include new requirement or mark N/A if not present
	8.6.6.1.1	2013	First sentence revised	First sentence revised to remove 8.6.5.14 through 8.6.5.16 cat testing for hydraulics	None
349	8.6.7.9	2013	Editorially revised	Editorial revised to include to new sections 8.6.7.9.1 through 8.6.7.9.5	None
350	8.6.7.11	2013	Added	New maintenance section for wind turbine added	Inspector to verify log book for completion
	8.6.7.12	2013	Added	New maintenance section for outside emergency elevators added 8.6.7.12 Outside Emergency Elevators. The maintenance, repair, and replacement of outside emergency elevators shall conform to 8.6.1 through 8.6.3 (clearances and SSPI) and ASME A17.7/CSA B44.7, Requirement 2.12.2. 8.6.7.12.1 Periodic Test Requirements — Category 1. Outside emergency elevators shall be subject to applicable periodic tests specified in 8.6.4.19.1 through 8.6.4.19.5, 8.6.4.19.7, 8.6.4.19.8, 8.6.4.19.10, and ASME A17.7/CSA B44.7, Requirement 2.12.3. Outside emergency elevators are not required to be powered by electric driving-machine motors. 8.6.7.12.2 Periodic Test Requirements — Category 5. Outside emergency elevators shall be subject to applicable periodic tests specified in 8.6.4.20.1 through 8.6.4.20.11 and ASME A17.7/CSA B44.7, requirement 2.12.3. Outside emergency elevators are not required to be powered by electric driving-machine motors.	None

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351	8.6.8.5	2013	Subparagraph (a) revised 8.6.8.5 Escalator Skirt Panels and Skirt Obstruction Devices (a) Damaged skirt or dynamic skirt panels shall be replaced or repaired and the installation shall conform to 8.6.8.2 and 8.6.8.3.3. (b) The skirt obstruction devices shall be checked for proper adjustment and operation.	Check to ensure no Damaged to skirt or dynamic skirt panels if replaced or repaired the installation shall conform to 8.6.8.2 and 8.6.8.3.3. The skirt obstruction devices shall be checked for proper adjustment and operation.	Inspection if panels are replaced ensure 8.6.8.2 to 8.6.8.3 is updated and new SSPI is present in log book Contractors may require additional training to staff
353	8.6.8.15.24	2013	Added 8.6.8.15.24 Maintenance of Seismic Devices. A seismic switch, where provided, shall be maintained in accordance with the manufacturer's recommendations.	If escalator has seismic device provide maintenance	Inspector to verify log book completion if required Contractor to update logbook to include new requirement or mark N/A if not present
355–3 57	8.6.11.5.4	2013	Revised	"All authorized personnel who are assigned to assist in evacuating passengerswind turbine "wind turbine was added to this sentence	None
	8.6.11.6	2013	Title revised	The word "Procedure" was added to the title	None
	8.6.11.6.1	2013	Revised in its entirety 8.6.11.6 Escalators and Moving Walks Startup and Procedures 8.6.11.6.1 (a) Escalators and moving walks shall be started only by authorized personnel (see 1.3) trained in compliance with the procedures specified in 8.6.11.5.2 through 8.6.11.5.5. (b) Stopped escalators shall not be used as a means of access or egress by non-authorized personnel and shall be properly barricaded if accessible to the general public to prevent such use.	Start Up Procedures updated to say stopped escalators shall not be used as means of access CAD: (b) Stopped escalators should not be used as a means of access or egress NOTE: Proper barricades are described in the Elevator Industry Field Employee Safety Handbook — Escalator/Moving Walk Barricades.	Each jurisdiction should ensure they are following their Regulatory requirement for access TSSA CAD revises this requirement. Stopped escalators "should" not be used

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			(1) Original 8.6.11.10.1 to 8.6.11.10.4 added causing renumbering for sec	tions below 8.6.11.11, 12, 13	Inspector to ensure alternative	
			Allows alternative testing clarifies when permitted, procedures as well as	the report requirements	test report is in log book and in	
	8.6.11.10.1–8. 6.11.10.4		8.6.11.10 Category 5 Tests Without Load Via Alternative Test Methodolog	gies	compliance	
					-make model of test tool used	
			8.6.11.10.1 Where Permitted. Alternative test methods without load are	permitted for Category 5 testing subject to approval by the authority having	-company and persons doing	
				jurisdiction of		test
			(a) car and counterweight safeties per 8.6.4.20.1		-record of test to show	
			(b) oil buffers per 8.6.4.20.3		compliance	
		2013	(c) driving-machine brakes per 8.6.4.20.4, and		-Identify a baseline to be used	
			(d) braking system, traction, and traction limits per 8.6.4.20.10		for future tests	
			NOTE: See 8.10, Note (2). 8.6.11.10.2 Alternative Test Method and Tools		-car/cwt masses	
			(a) An alternative test method shall be		-all Cat 5 tests pass or fail	
			(1) based on sound engineering principles			
			(2) validated and documented via engineering tests			
				ng reliable and consistent measurements, suitable for the intended measurement.		
			The monitoring and calibration of the measuring devices or tools shall be	in accordance with the provider's guidelines.		
			8.6.11.10.3 Alternative Test Method Procedure.			
			The alternative test method shall			
			(a) include requirements to obtain and verify car and counterweight mass	ses if necessary for the test		
			(b) have a procedure document that		Contractor ensure proper	
			(1) defines the permissible equipment range and limitations regarding		approved report left on site	
	8.6.11.10.1–8.		(2) establishes monitoring and calibration criteria for tools or measuring	ng devices as appropriate		
	6.11.10.4	2013	(3) defines the test set-up procedure			
			(4) provides instructions on how to interpret results and correlate the	·		
			(c) describe how to correlate no load test results with previously acquired	d full load and no load results		
			(d) be included in the maintenance control program [see 8.6.1.2.1(a)]			
			(e) include the information required by 8.6.1.2.1(f) where applicable, and (f) require a report conforming to 8.6.11.10.4			
			(i) require a report comorning to 8.6.11.10.4			
			8.6.11.10.4 Alternative Test Method Report. The alternative test method	•		
			(a) identify the alternative test tool (make/model) used to perform the te			
			(b) identify the company performing the tests, names of personnel condu			
			(c) contain all required printouts or record of tests required to demonstra	ate compliance to the testing requirement that were gathered during an		
	8.6.11.10.1–8.		acceptance test	compliance evaluation		
	6.11.10.4	2013	(d) identify which results from the baseline test are to be used for future	11.10.3(a) during the acceptance test and during any subsequent Category 5 test if		
			required by test method	11.10.5(a) during the acceptance test and during any subsequent category 5 test in		
			(f) contain all subsequent Category 5 results with pass-fail conclusions re	garding Code compliance		
			(g) remain on site or shall be available to elevator personnel and the auth			
		2013	(2) Original 8.6.11.11 redesignated as 8.6.11.12	Examination After Safety Application procedure added	None	
		2013				
			(3) Original 8.6.11.12 redesignated as 8.6.11.14, and new 8.6.11.13 added 8.7.1.7		None	
		2013	Second sentence deleted	Means procedure added		

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	8.7 Altera	tions						
358	8.7.1.9	2013	8.7.1.9 Alterations Involving SIL Rated Device(s) Added: Alterations involving SIL Rated Devices(s) (See 1.3)	Introduces new requirements to clarify alterations to a SIL rated device.	eng'g and inspection enforcement as written			
	8.7.2.7.2	2013	Revised: Means of Access	Added control space and control room to alterations affecting means of access.	eng'g and inspection enforcement as written			
360, 361	8.7.2.11.5	2013	Editorially revised: Restricted Opening of Hoistway Doors or Car Doors of Passenger Elevators	Updated reference for door restrictors. Was 2.12.5, changed to 2.14.5.7.	eng'g and inspection enforcement as written			
	8.7.2.12		Revised: Where the alteration consists of the addition of, or alteration to, power opening or power closing of hoistway doors, the installation shall conform to 8.7.2.10.1, 8.7.2.10.2, 8.7.2.10.3, and 8.7.2.10.5. All new equipment and wiring shall conform to 8.7.2.8 and 2.26.4.2. All modified equipment and wiring shall conform to 8.7.2.8.	Relocated requirements previously in alteration 8.7.2.27.4(b) to make them easier to find.	eng'g and inspection enforcement as written			
	8.7.2.13	2013	First paragraph revised: Door Reopening Device. Where a reopening device for power-operated car doors or gates is altered or added or is part of an alteration to the door system, the following requirements shall apply:	Incorporates modifications made to 8.6.3.8 in a previous change.	eng'g and inspection enforcement as written			
	8.7.2.14.3	2013	Subparagraphs (b) and (c) editorially revised	Code and clause references editorially revised. Applies to jurisdiction not enforcing the NBCC.	eng'g and inspection enforcement as written			
	8.7.2.14.4	2013	Revised compliance requirements	Changed compliance requirement for changes to the car from requiring full compliance with 2.14 to 2.14.2.1.2, 2.14.2.1.3 and 2.14.2.1.4.	eng'g and inspection enforcement as written			
	8.7.2.16.2	2013	Second sentence added: Where the freight loading class of a passenger elevator is changed, it shall conform to 2.16.1.3.	Loading class alteration now includes passenger cars with freight loading classes.	eng'g and inspection enforcement as written			
362	8.7.2.17.1	2013	(1) First paragraph revised	Alteration to increase or decrease rise is no longer coupled with no change in drive machine location.	eng'g and inspection enforcement as written			
	8.7.2.17.1	2013	(2) Subparagraph (c)(3) editorially revised	Adds requirement to comply with 2.21.4 (Compensation)	eng'g and inspection enforcement as written			
	8.7.2.17.1	2013	(3) Subparagraph (d) added	Adds requirement when a a blind hoistway section is created.	eng'g and inspection enforcement as written			

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1–3 6	8.7.2.25.2	2013	Revised in its entirety: (a) Where the location of the driving machine is changed with no increase or decrease in rise, the installation shall conform to 2.7.2.2, and, 2.7.6.3.1, 2.7.6.3.3, 2.7.6.4, 2.7.8, 2.7.9, 2.8, 2.9, 2.10.1, 2.19, 2.20, 2.24.1, 2.24.2.3, 2.28, 2.29.1. (b) Where the location of the driving machine is changed with an increase or decrease in rise, the entire installation shall conform to Part 2, except for the following: the installation shall conform to 8.7.2.25.2(a) and 8.7.2.17.1.	Clarified which requirements must be conformed to when changing driving machine location.	eng'g and inspection enforcement as written
	8.7.2.27.1	2013	Title and paragraph revised in their entirety: 8.7.2.27.1 Top-of-Car Inspection Operation and Inspection Operation with Open Door Circuits Operating Devices. Where there is an alteration to or addition of a top-of-car operating device, it shall conform to 2.26.1.4. (a) Where there is an alteration to or addition of any type of inspection operation (see 2.26.1.4.1(a)), the alteration shall conform to the applicable requirements in 2.26.1.4. (b) Where there is an alteration to or addition of car door bypass or hoistway door bypass switches, the alteration shall conform to 2.26.1.5.	Add requirements to cover addition or alteration to other forms of inspection operation beside top of car, including; In-car inspection operation, machinery space outside the hoistway, machine room, control room, control space outside the hoistway, control room, pit, landing and working platform inspection operations. Deleted top-of-car inspection operation is covered by new requirement (a). Add requirements to address addition or alteration of door bypass switches	eng'g and inspection enforcement as written
	8.7.2.27.4	2013	8.7.2.27.4 Controllers Revised in its entirety	Changes to controller requirements have prompted changes to these alteration requirements. While these alteration scopes are somewhat interrelated, the	eng'g and inspection enforcement as written
	8.7.2.27.5	2013	8.7.2.27.5 Change in Type of Motion Control Revised in its entirety	objective of this change is to establish a logical progression of increasing safety requirements based on each alteration scope.	eng'g and inspection enforcement as written
	8.7.2.27.6	2013	8.7.2.27.6 Change in Type of Operation Control Revised in its entirety		eng'g and inspection enforcement as written
	8.7.2.27.7	2013	Revised in its entirety		eng'g and inspection enforcement as written
	8.7.2.27.9	2013	8.7.2.27.9 Door Monitoring System Added: 8.7.2.27.9 Door Monitoring System (a) Where there is an alteration to or addition of a system to monitor and prevent automatic operation of the elevator with faulty door contact circuits on power-operated car doors that are mechanically coupled with the landing doors while the car is in the landing zone, the alteration shall conform to the requirements in 2.26.5.	Rationale: Add requirements to cover addition or alteration of a door monitoring system for power operated car doors that are mechanically coupled with landing doors.	eng'g and inspection enforcement as written

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	8.7.2.28	2013	(1) Subparagraph (c) revised: (c) Where an alteration is made to, or consists of the addition of, Firefighters' Emergency Operation, the installation the elevator and all elevators in the same group automatic operation shall conform to 2.27.3 through 2.27.8.	Rationale: To address alterations to emergency operations for elevators in a group operation	eng'g and inspection enforcement as written
	8.7.2.28	2013	(2) Subparagraph (e) added: (e) where any of the alterations (a) though (d) occur all new equipment and wiring shall conform to 8.7.2.8 and 2.26.4.2. and all modified equipment and wiring shall conform to 8.7.2.8. Equipment and floors shall be identified as required by 2.29.	The requirements of 8.7.2.27.4(c) have been moved here, in a more appropriate location. Readers of the code may not look under "controller alteration" when dealing with emergency power, standby power or FEO alterations. Also move requirement for equipment identification.	eng'g and inspection enforcement as written
67	8.7.3.7	2013	Title and paragraph revised		eng'g and inspection enforcement as written
	8.7.3.12	2013	Revised		eng'g and inspection enforcement as written
	8.7.3.13	2013	(1) Title revised		eng'g and inspection enforcement as written
		2013	(2) Revised in its entirety		eng'g and inspection enforcement as written
58	8.7.3.18	2013	Last sentence added: Where the freight loading class of a passenger elevator is changed, it shall conform to 2.16.1.3 as modified by 3.16.	Loading class alteration now includes passenger cars with freight loading classes.	eng'g and inspection enforcement as written
)–3 1	8.7.3.31.5	2013	Revised in its entirety	Changes to controller requirements have prompted changes to these alteration requirements. While these alteration scopes are somewhat interrelated, the	eng'g and inspection enforcement as written
	8.7.3.31.6	2013	Revised in its entirety	objective of this change is to establish a logical progression of increasing safety requirements based on each alteration scope.	eng'g and inspection enforcement as written
	8.7.3.31.7	2013	Revised in its entirety		eng'g and inspection enforcement as written
	8.7.3.31.8	2013	 (1) Subparagraph (c) revised: (c) Where an alteration is made to, or consists of the addition of, firefighters' emergency operation, the installation the elevator and all elevators in the same group automatic operation shall conform to 3.27, except 2.27.1 and 2.27.2. 	Rationale: To address alterations to emergency operations for hydraulic elevators. And provide consistency with 8.7.2.28.	eng'g and inspection enforcement as written
	8.7.3.31.8	2013	(2) Subparagraphs (d) and (e) added: (d) Where the alteration consists of the addition of an elevator to a group, all elevators in that group shall conform to 3.27. d) where any of the alterations (a) though (c) occur all new equipment and wiring shall conform to 8.7.3.8 and 2.26.4.2 and all modified equipment and wiring shall conform to 8.7.3.8. Equipment and floors shall be identified as required by 2.29.	To address alterations to emergency operations in hydraulic elevators in group operation and to make the hydraulic elevator alterations consistent with the electric elevators elevator alterations. The requirements of 8.7.2.27.4(b) have been moved here, in a more appropriate location. Readers of the code may not look under "controller alteration" when dealing with emergency power, standby power or FEO alterations. Also move requirement for equipment identification.	eng'g and inspection enforcement as written

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	8.7.3.31.10	2013	Revised in its entirety: 8.7.3.31.10 In-Car Stop Switch. On passenger elevators equipped with nonperforated car enclosures, the emergency stop switch, including all markings, shall be permitted to be removed and replaced by-if an in-car stop switch conforming to the following: 2.26.2.21, 2.26.4.3, 2.26.9.3(a), and 3.26.4.2 is-provided. (a) it is either key operated or behind a locked cover, and located in or adjacent to the car operating panel. The key shall be Group 1 Security (see 8.1). The switch shall be clearly and permanently marked "STOP" and shall indicate the "STOP" and "RUN" positions. When opened ("STOP" position), this switch shall cause the electric power to be removed from the elevator hydraulic machine. (b) The device shall meet the requirements of 2.26.4.3. (c) The device shall meet the requirements of 3.26.4.2	Rationale: To assist in improving personal safety for the riding public. If an alteration only consists of the change to the In-Car Stop Switch to a keyed switch, the current requirement (2.26.2.21) requires meeting requirements which may require extensive controller changes for single failure fault protection. The in-car stop switch was modified from the toggle to be behind a locked cover/key switch with the A17.1d-1986 code. This allowed the Emergency Switch on Freights and passenger perforated car enclosures, but required the in car stop switch (cover/key) for non perforated car enclosures. The requirement for single failure fault protection was not incorporated into the code until A17.1-1987, therefore these units that are affected by this alteration would have been installed prior to these 1987 code requirements.	eng'g and inspection enforcement as written
	8.7.3.31.12	2013	Added: 8.7.3.31.12 Change of hydraulic pump motor starter Where there is a change to the hydraulic pump motor starter, and the starter solely controls the motion of the car in the up direction without the use of valves, the installation shall conform to 3.26.6.4 and 3.26.5. The new and modified equipment and wiring shall conform to (a) 2.8.2.1 (b) 2.26.4.1 (c) 2.26.4.2	A change to the pump motor starter is a replacement, unless the starter also controls the upward motion of the car (ie a design that does not incorporate a hydraulic valve to control upward motion), then the change must meet 8.7.3.31.12 Rationale for individual requirements is as follows: 2.8.2.1 electrical equipment to meet electrical code 2.26.4.1 electrical equipment & wiring to electrical code, 2.26.4.2 equipment to be listed for elevator use 3.26.6.4 important if design does not incorporate a valve, then we need 2 means to remove power 3.26.5 phase reversal protection	eng'g and inspection enforcement as written
373	8.7.5.10	2013	Added: 8.7.5.10 Outside Emergency Elevators. Where an alteration is made to an outside emergency elevator, the alteration shall conform to the requirements of 8.7.1 and ASME A17.7/CSA B44.7, requirement 2.12.2.	Adds alteration requirements of outside emergency elevators	eng'g and inspection enforcement as written
374	8.7.6.1.17	2013	8.7.6.1.17 Variable Frequency Drive Motor Added: 8.7.6.1.17 Variable Frequency Drive Motor Control. Where the alteration consists of the addition of, or alteration to, a variable frequency drive motor control, the installation shall conform to 6.1.6.3.2 and 6.1.6.10.3.	Rationale: To add requirements for the addition of or alteration to a variable frequency drive motor control on an escalator. This is to handle potential over speed faults caused by a loss of a phase, under voltage or an open delta.	eng'g and inspection enforcement as written
375	8.7.6.2.16	2013	Added: 8.7.6.2.16 Variable Frequency Drive Motor Control Where the alteration consists of the addition of, or alteration to, a variable frequency drive motor control the installation shall conform to 6.2.6.3.2 and 6.2.6.9.3	Rationale: To add requirements for the addition of or alteration to a variable frequency drive motor control on a moving walk. This is to handle potential over speed faults caused by a loss of a phase, under voltage or an open delta.	eng'g and inspection enforcement as written

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	8.9 CODE	DAT	A PLATE		
	8.9.1	2013	8.9.1 Required Information Revised to add: Where the installation or alteration contains SIL Rated Devices the following wording "Installation contains SIL Rated Devices" shall be included on the data plate or on an additional plate located adjacent to the Code Data Plate.	Adds requirement to identify that SIL devices are present on the code data plate.	field verifiable
	8.10 Acce	ptan	ce Inspections and Tests		
		1000000	Note revised:	Since alternative testing is contingent on results obtained during an acceptance	
376	Section 8.10	2013	Category 5 tests utilizing alternative test methods require a comparison against baseline measures made during acceptance inspection tests. See 8.6.11.10 if alternative test methods are contemplated on future category 5 tests.	test, the note intends to alert readers that if no load category 5 testing is intended to be performed in the future, readers can refer to the requirements that will apply at the category 5 test.	
	8.10.1.1.3	2013	Revised: The inspector shall meet the qualification requirements of the ASME QEI-1. Inspectors and inspection supervisors shall be certified in accordance with the requirements of ASME QEI-1 by an organization accredited, independent organization concerned with personnel certification accredited by ASME in accordance with the requirements of ASME QEI-1.	Revised language reflects ASME's recent decision to discontinue accreditation of certifying organizations and allows organizations to seek accreditation elsewhere while continuing certification of inspectors and inspection supervisors to the QEI-1 Standard.	
	8.10.1.1.4	2013	8.10.1.1.4 Acceptance Test Tags Added: Acceptance Test Tags. A metal tag with the applicable code requirement(s) and date(s) performed, and the name of the person or firm performing the test and the inspector witnessing the test, including their inspector's ID number and certifying organization, shall be installed to be readily visible and shall be permanently attached to the controller of each unit.	To provide a similar requirement for an Acceptance Test Tag as now exists for Periodic Test tags in 8.6.1.7.2	Inspector to install name QEI number was well as NEASAi as being certifying body. Acceptance Test Tag to be provide by the contractor.
	8.10.1.1.5	2013	8.10.1.1.5 Acceptance Test Records Added: Acceptance Test Records. A permanent test record showing the test dates, the requirement number for each test, the name of the person or firm performing the test, the inspector's name that witnessed the tests, their inspector's ID number and certifying organization shall be made a permanent part of the maintenance records (8.6.1.4.1). The test record shall document all applicable acceptance tests shown in Non- Mandatory Appendix X.		Inspector to install name QEI number was well as NEASAi as being certifying body. Completed Appendix X acceptance checklist to be left with the Maintenance Records. Check chart provided by the contractor
377–3 80	8.10.1.2 -8.10.1.4	2013	(1) Original 8.10.1.2 redesignated as 8.10.1.3, and new 8.10.1.2 added: 8.10.1.2 Accreditation of Certifying Organizations. All organizations that certify elevator inspectors and inspection supervisors shall be accredited by an accrediting body (see 1.3) in accordance with ANSI/ISO/IEC 17024, or equivalent, and ASME QEI-1.		
			(2) Original 8.10.1.3 redesignated as 8.10.1.4		
		2013	(3) Original 8.10.1.4 redesignated as 8.10.1.5 and revised		

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		2013	 8.10.1.6 Maintenance Control Program (4) New 8.10.1.6 added: 8.10.1.6 Maintenance Control Program. The Maintenance Control Program complying with 8.6.1.2.1 shall be available at the time of inspection. On-site equipment documentation complying with 8.6.1.2.2 shall be available at the time of inspection. 		requirements for on-site documentation
	8.10.2.2.1		(1) Subparagraph (k)(2) editorially revised	Reference for glass doors revised.	
	8.10.2.2.2		(2) Subparagraph (r) revised 8.10.2.2.2 Machine Rooms, Machinery Spaces, and Control Rooms/Spaces (1) Subparagraph (v) revised: The means of adjusting the holding capacity of the brake shall be sealed to prevent changing the adjustment without breaking the seal. The seal shall bear or otherwise attach the identification of the person or firm that installed it. (See also 8.6.1.7.2 Periodic Test Tags)	Reference and text for means to restrict car door revised. Rationale: The increased frequency of testing of the critical braking system will aid in monitoring the performance of the braking system. The sealing of the brake adjustment will ensure that the adjustment is not inadvertently changed between testing periods. It is necessary to identify the party that applied the seal.	Ensure seals are in place
		2013	(2) Subparagraph (cc)(3)(c)(2) editorially revised	Editorial changes have been made to correct terminology to be consistent with 2.24.2.3.1. The Note for 8.10.2.2.2(cc)(3)(b) and 8.10.2.2.2(cc)(3)(c) is intended to clarify that it might not be physically possible to cause a loss of traction. For this reason, the alternatives in 8.10.2.2.2(cc)(3)(b) and 8.10.2.2.2(cc)(3)(c) are given. Additions to 8.10.2.2.2(cc)(3) are to provide acceptance testing consistent with other important testing requirements in ASME A17.1. A physical test will demonstrate compliance as required by 2.20.8.2(e).	
		2013	(3) Subparagraph (ii)(1)(b) revised: (b) The tripping speed of the governor car speed at which the governor trips shall be measured determined by means of a tachometer or other device designed to measure car speed and, if necessary, the governor shall be replaced or adjusted to conform to 2.18.2.	2.18.2 refers to the car speed at which the governor trips, not the governor speed. Additionally, some governors are not adjustable, and these governors require replacement if the car speed at which the governor trips is outside of the allowable range.	Verified during initial inspection
		2013	(4) Subparagraph (nn) editorially revised	Corrected reference for wiring diagrams in 8.6	
82	8.10.2.2.8 8.10.2.2.9	2013	Title and paragraph revised Added: 8.10.2.2.9 Occupant Evacuation Operation. Verify conformance with 2.27.10.	Clarifies requirements for labeling and checkout of SIL rated devices. Adds new acceptance requirement.	
4–3 86	8.10.3.2.2	2013	(1) Subparagraph (cc) editorially revised	Reference corrected	
			(2) Subparagraph (gg) editorially revised	Corrected reference for wiring diagrams in 8.6	
	8.10.3.2.3		(1) Subparagraph (z) editorially revised	Reference corrected	
37	8.10.3.3.2	2013	(2) Subparagraph (aa) editorially revisedSubparagraph (i) editorially revised:(i) Where the location of the driving machine hydraulic jack has been changed	Reference corrected Definition of driving machine changed prior to 1996 and is now entitled "hydraulic jack" (see 8.7.3.23.5).	

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388	8.10.4.1.1	2013	Subparagraph (e) editorially revised in its entirety: (e) Lighting (Items 7.5 and 9.5) (6.1.7.2 or 6.2.7.2) (1) illumination of steps (6.1.7.2 or 6.2.7.2) (2) demarcation (6.1.6.7 or 6.2.6.7)	Revised to reflect that step demarcation lighting is no longer required.	
389	8.10.4.1.2	2013	Escalator and Moving Walk 8.10.4.1.2 Internal Inspection and Tests Subparagraph (c)(2) revised in its entirety: (c) Controller and Wiring. Controller and wiring shall be inspected (Items 8.3 and 10.3). (1) Wiring (6.1.7.4 or 6.2.7.4) (2) Control-(6.1.6.10 through 6.1.6.13 or 6.2.6.9 through 6.2.6.11) The person or firm installing the escalator or moving walk shall provide a manufacturer's written procedure and demonstrate compliance with redundancy and software checking of control and operating circuits (6.1.6.10 and 6.2.6.9). Where there are no test or check requirements, the written checklist shall state "No test or check required." The documentation shall state the reason no test or check is required. The following shall be documented or demonstrated: i) General (6.1.6.13 and 6.2.6.12) ii) Redundancy and its checking (6.1.6.10.1, 6.1.6.10.2, 6.2.6.9.1 and 6.2.6.9.2) iii) Static control (6.1.6.10.3and 6.2.6.9.3), where applicable iv) Electrically Powered Safety devices (6.1.6.11and 6.2.6.10), where applicable v) Installation of Capacitors or Other Devices to Make Electrical Protective Devices Ineffective (6.1.6.12 and 6.2.6.11) vi) Contactor and relays for use in critical operating circuits (6.1.6.15 and 6.2.6.14), where applicable	Updated the Escalator and Moving Walk inspection guidelines and requirements of A17.1 and A17.2 to correspond with the latest electrical requirements in A17.1 Part 6 and provide consistency with new technology A17.7-2007 / B44.7-07 Performance Based Safety Code for Elevators and Escalators 2.10.1 and 2.10.2.	Testing script - and/or - Documentation, as part of design submissions. Inspection to follow test script.
392	8.10.5.14	2013	Added	Added acceptance testing requirements for Wind Turbine Tower Elevators	Verified during initial inspection
	8.10.5.15	2013	Added	Added acceptance testing requirements for Outside Emergency Elevators	Verified during initial inspection

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	8.11 Perio	odic I	nspections and Witnessing of Tests		
393, 394	8.11.1.1	2013	Revised: The inspector shall meet the qualification requirements of the ASME QEI-1. Inspectors and inspection supervisors shall be certified in accordance with the requirements of ASME QEI-1 by an organization accredited, independent organization concerned with personnel certification accredited by ASME in accordance with the requirements of ASME QEI-1.	Revised language reflects ASME's recent decision to discontinue accreditation of certifying organizations and allows organizations to seek accreditation elsewhere while continuing certification of inspectors and inspection supervisors to the QEI-1 Standard.	TSSA does not adopt 8.11
393, 394	8.11.1.1.2	2013	Subparagraph (a) revised: (a) Periodic tests as required in 8.6 shall be performed by elevator personnel that are qualified to perform such tests. These tests shall be witnessed by an inspector (see 8.11.1.1) employed by the authority having jurisdiction, or by persons authorized by the authority having jurisdiction.		
393, 394	8.11.1.7	2013	Revised: Where unique or product-specific procedures or methods are required to maintain, repair, replace, inspect or test equipment, such procedures or methods shall be provided by the manufacturer or installer [see 8.6.1.2.1(e)2(b)].	Revised references to reflect changes in 8.6.	
393, 394	8.11.1.8	2013	Added: The Maintenance Control Program complying with 8.6.1.2.1 shall be available. Onsite equipment documentation complying with 8.6.1.2.2 and maintenance records complying with 8.6.1.4 shall be available.		
393, 394	8.11.2.1.1	2013	Subparagraph (r) revised	Update to agree with requirements in 2.14.5.7 Restricted Opening of Car Doors.	
393,	8.11.2.1.2	2013	Subparagraph (II) editorially revised	Corrected reference for wiring diagrams in 8.6	
394 396	8.11.2.1.8		Added: 8.11.2.1.8 Braking System. For passenger elevators and all freight elevators, verify that seal on the means of adjusting the holding capacity of the driving machine brake has not been broken and that it bears or otherwise attaches the identification of the person or firm that installed it. (see 8.6.4.20.4)	The increased frequency of testing of the critical braking system will aid in monitoring the performance of the braking system. The sealing of the brake adjustment will ensure that the adjustment is not inadvertently changed between testing periods. It is necessary to identify the party that applied the seal.	
	8.11.3.1.2	2013	Subparagraph (cc) editorially revised	Corrected reference for wiring diagrams in 8.6	
399	8.11.5.14		Added	Added periodic testing requirements for Wind Turbine Tower Elevators	
	8.11.5.15	2013	Added	Added periodic testing requirements for Outside Emergency Elevators	

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	PART 9				
	9.1 Refere		Documents		
401–4 07	Section 9.1	2013	Updated to reflect new and revised references		
	9.2 Procu	remei	nt Information		
408, 409	Section 9.2	2013	Updated to reflect new and revised references		
	Nonmand	atory	Appendix		
413	Nonmandator y Appendix B		APPENDIX B UNLOCKING ZONE Title revised	Title revised	Figure revised with 175mm (7 in.) unlocking zone for non-freight elevators
	Fig. B-1	2013	Subtitle and figure revised	Revised to show 175 mm (7 in.) dimension, 2.12.5 revised moved to 2.14.5.7.	
416–4	Nonmandator y Appendix E		NONMANDATORY APPENDIX E ELEVATOR REQUIREMENTS FOR PERSONS WITH PHYSICAL DISABILITIES IN JURISDICTIONS ENFORCING THE NBCC Revised in its entirety	Definition and requirements for VMS (variable message signs) added. Permission to reduce door reopening to 910mm (36 in.) removed. Minimum door dwell time for non Destination-oriented elevators increased based on distance from the farthest hall call button to the centerline of the hoistway door, and timing starts when lantern-gong is visible and audible. Reference to LU/LA min. dimensions removed. Minimum clear door opening 915mm (36 in.) and min. circular space specified. Car call sequential step scanning defined, permitted for car buttons more than 1220 mm (48 in.) above the floor. Destination-oriented elevators require verbal floor announcement regardless of speed. Operable parts of emergency two-way communications cannot be lower than 380 mm (1.5 in.). Hall buttons require an audible signal or mechanical motion of the button to indicate when a call is registered. Destination-oriented elevators require visual, audible, and verbal announcements to indicate which car is responding to a call. LU/LS swing doors shall open and close automatically, clear floor space for hall station located beyond the arc of the door swing, swing doors remain open for 20 sec. minimum, car door requirements based on number, opposite ends, adjacent sides, control panel centered on longest side wall. Signs permitted to be uppercase, lowercase, or a combination of both; requirements for characters on signs revised. Braille requirements revised.	
425	Table F-1	2013	NONMANDATORY APPENDIX F ASCENDING CAR OVERSPEED AND UNINTENDED CAR MOVEMENT PROTECTION Table F-1 Traction Elevator Brake Type, Function, and Performance Revised	Emergency terminal speed limiting added to table for emergency brake function and performance (2.25.4.1.1 referenced). 2.16.8 reference added for braking system performance emergency.	
451	Table N-2		Table N-2 Guidelines on Use of Monitoring to Provide Inspection Data First column heading editorially revised	Heading A17.1 changed to A17.1/B44	

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462	Table R-1	2013	Table R-1 Inspection Operation and Hoistway Access Switch Operation Hierarchy Fourth column heading revised	Heading Hoistway Access changed to Hoistway Access Operation	
479	Nonmandator y Appendix V	2013	NONMANDATORY APPENDIX V BUILDING FEATURES FOR OCCUPANT EVACUATION OPERATION Added	New section for Occupant Evacuation Operation	
481	Nonmandator y Appendix W	2013	Added	New section for Wind Turbine Tower Elevator Clearances	
482	Nonmandator y Appendix X	2013	NONMANDATORY APPENDIX X ACCEPTANCE TESTS Added	Test records for Acceptance Tests (See 8.10.1.1.5)	
486	Nonmandator y Appendix Y	2013	NONMANDATORY APPENDIX Y MAINTENANCE CONTROL PROGRAM RECORDS Added	Maintenance Control Program Records.	

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viii–xii	ASME	2016	Foreword Revised	The twenty-first edition of the Code contains many revisions to existing requirements and the addition of some new requirements. Some areas of note, in which significant updates have been made, include, but are not limited to, seismic requirements for escalators; requirements for special purpose personnel elevators, rack-and-pinion elevators, residence elevators, and material lifts with	Forward Highlights: Seismic updates (Esc), elastomeric buffers
xxi–xxii i	ASME	2016	Preface Revised	obscured transfer devices; and the addition of elastomeric buffer requirements.	
			Revised		
xxiv	CSA Preface	2016			
	PART 1	Gener	ral		
2–17			(1) Definitions of backup rollers , counterweight displacement detection device , elastomeric buffer , seismic detection device , and sound engineering practice added		new
2–17	Section 1.3	2016	backup roller(s): a roller that limits the separation of a pinion from a rack.		new
2–17	Section 1.3	2016	counterweight displacement detection device: a device actuated by the displacement of the counterweight, at any point in the hoistway, to provide a signal that the counterweight has moved from its normal lane of travel or has left its guide rails.		new
2–17	Section 1.3	2016	elastomeric buffer: an energy-accumulation-type buffer with nonlinear characteristics (such as a polyurethane buffer) using resilient materials to cushion the impact force of the descending car or counterweight.		[E] [I] [OEM] elastomeric buffers are formally recognized in the code See section 2.22
2–17	Section 1.3		seismic detection device: a device activated by ground movement to provide a signal that a potentially damaging earthquake is imminent.		new
2–17	Section 1.3	2016	sound engineering practice: the use of engineering or technical methods to design or evaluate a device or system by taking into account relevant factors that may influence its efficacy and operation. This practice also involves the use of applicable standards, specifications, codes, and regulatory and industry guidelines, as well as accepted engineering and design methods and installation and maintenance practices.		new

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2–17	Section 1.3	2016	(2) Definitions of bumper, controller motor, traction machine, and unlocking zone revised bumper: a device, other than an oil or spring or elastomeric buffer, designed to stop a descending car or counterweight beyond its normal limit of travel by absorbing the impact. controller, motor: the operative units of a motion control system comprising the starter devices and/or power conversion equipment required to drive an electric motor. traction machine: a direct driving machine in which the motion of a car is obtained through friction between the suspension ropes means and a traction sheave.	revised definitions of bumper, controller motor, traction machine, and unlocking zone	revised
2–17	Section 1.3	2016	(2) Definitions of bumper, controller motor, traction machine, and unlocking zone revised unlocking zone: a zone extending from the landing floor level to point not less than 75 mm (3 in.) nor more than 175mm(7 in.), except not more than 450mm(18 in.) for freight elevators with vertically sliding doors a specified point above and below the landing. fyi, removed language in 2019	revised definitions of bumper, controller motor, traction machine, and unlocking zone	revised important dimensional change to unlocking zone, dimensions removed in 2019 definition. Dimensions are in the requirement - not in the definition
2–17	Section 1.3	2016	(3) Definitions of displacement switch; driving machine, traction climbing; elevator, wind turbine tower; guide rope fixes; operation, automatic call; operation, automatic send; platform landing; seismic switch; tail line; and travel path deleted	deleted definitions displacement switch; driving machine, traction climbing; elevator, wind turbine tower; guide rope fixes; operation, automatic call; operation, automatic send; platform landing; tail line; and travel path	definitions primarily related to Wind Towers removed from A17.1/B44

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	PART 2	1.01			
25	2.4 Vertic		Minimum Bottom Runby for Counterweighted Elevators Revised Where spring buffers, elastomeric buffers or solid bumpers are used, the bottom runby shall be not less than 150 mm (6in.), except for rheostatic and single-speed AC control, not less than shown in Table 2.4.2.2.		
25	Table 2.4.2.2	2016	Minimum Bottom Runby for Counterweight Elevators With Spring Buffers, Elastomeric Buffers, or Solid Bumpers and Rheostatic Control or Single-Speed AC Control Title revised	language added to address permission for elastomeric buffers added	[E] [I] [OEM] elastomeric buffers are formally recognized in the code
25	2.4.6.1.1	2016	Maximum Upward Movement of the Car Subparagraph (c)(2) revised (c)(2) the governor tripping speed where spring buffers or elastomeric buffers are used.		
26	2.4.8	2016	Top of Counterweight Clearances Subparagraph (d)(2) revised (d)(2)the governor tripping speed where spring buffers or elastomeric buffers are used (see 8.2.5 for gravity stopping distances)	language added to address permission for elastomeric buffers added	
	2.5 Horizo	ontal	Car and Counterweight Clearances		
27	2.5.1.5.3	2016	Clearance Between Loading Side of Car Platforms and Hoistway Enclosures Subparagraph (a) revised (a) a car door interlock conforming to 2.14.4.2 is provided to prevent a door from being opened unless the car is within the unlocking zone (see 2.12.1)	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	

	_		What's New in ASME A17.1-2013		
age	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	2.7 Machi	nery	Spaces, Machine Rooms, Control Spaces, and Control Rooms		
2, 33	2.7.5.3.3	2016	A working platform shall be provided with a standard railing conforming to 2.10.2 on the all open or exposed sides where a 300 mm (12 in.) ball can pass the perpendicular distance between the edges of the platform and the adjacent	Railing required where perpendicular distance from working platform to wall exceeds 300mm, is now revised to gap to resist 300mm diameter ball Rationale: The intent of the requirement is to protect against fall hazards. Anthropometric data from A17.1/B44.7 Appendix C shows the body thickness to be 342 mm, so a 300mm circular space in all orientations as defined by a 300 mm (12 in.) sphere would be small enough to provide protection from the fall hazard.	[I]- field verifiable better clarification to help identify fall hazard
, 33	2.7.5.4		Working Platforms in the Line of Movement of the Car or Counterweight Subparagraph (a)(1) revisedthe car shall be stopped below the platform at least the distance required for top-of-car clearance (see 2.4.7)	"car top refuge space" terminology deleted and renamed to "top of car clearance"	fyi - revised terminology
2, 33	2.7.6.3.2	2016	Subparagraphs (e) and (f) added A motor controller shall be permitted to be located outside the specified spaces, provided it is	"AGP" to denote Accessible to General Public. Requirement to add safety signage. See 2.26.4.2 for a note about marking.	[OEM] to select proper enclosure can be field verifiable [I] - look for AGP signage
, 33	2.7.6.4.1	2016		Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
	2.8 Machi		Spaces, Machine Rooms, Control Spaces, and Control Rooms		
6	2.8.3.3.4	2016	First paragraph revised	fix a reference: 8.4.10.1.2(d) to 8.4.10.1.2(e) not applicable in NBCC	

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age	Req'mt #	Yr	Change	CHANGE NOTE Comments in blue, new text in red, o green = summary h	riginal code text in black	Enforcement & Notes
	2.11 Prote	ection	n of Hoistway Openings			
40	2.11.6.1	2016	Opening of Hoistway Doors Revised When the car is within the unlocking zone (see 2.12.1), the hoistway doors shall be openable by hand from within the car without the use of tools.	Add a reference to 2.12.1 for the unlocking zone the dimension requirements previously specifie		
47	2.11.19.3	2016	Gasketing of Hoistway Entrances Second sentence corrected by errata Each section of the gasketing material shall be labeled. Each label shall bear the names of the manufacturer and the certifying agency, and a statement indicating conformance with 2.11.19.1 and 2.11.19.2. The label shall be visible after installation.	editorial correction 2.11.19 Gasketing of Hoistway Entrances Where gasketing material is applied to entrance shall conform to 2.11.19.1 through 2.11.19.4. This requirement was revised in to require tha identification be included on the required labe	t the certifying agency	[OEM][I] = If gasketing provided, it needs to be labeled.
	2.12 Hois	tway	Door Locking Devices and Closed Detection Means, and Hoistwa	y Access Switches		
47	<u>2.12.1</u>	2016	Hoistway Door Locking Devices and Electric Contacts, and Hoistway Access Switches First paragraph added 2.12.1 General For passenger elevators, the unlocking zone from the landing floor level shall be not less than 75 mm (3 in.) nor more than 175 mm (7 in.). For freight elevators with vertically sliding doors, the unlocking zone from the landing floor level shall be not less than 75 mm (3 in.) nor more than 450 mm (18 in.).	dimensions for the unlocking zone where previously included in the definition. These dimensions have been removed from the definition and moved to the introduction of 2.12.1	175 mm (7 in.) [450 mm (18 in.) for freight elevators with vertical sliding doors only] Landing 75 mm (3 in.) Sha	II be
0–52	2.12.6.2.3	2016	Hoistway Door Unlocking Devices Revised 2.12.6.2.3 Where a hoistway door unlocking device consists of an arrangement whereby a releasing chain, permanently attached to a door locking mechanism, is kept under a locked panel adjacent to the landing door, such a panel shall be self-closing and self-locking and shall not have identifying markings on its face.			
)–52	2.12.6.2.5	2016	Revised The hoistway door unlocking device keyway and locked panel (see 2.12.6.2.3), if provided, shall be located at a height not greater than 2 100 mm (83 in.) above the landing.			

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50–52	2.12.7.2	2016	Hoistway Access Switches Revised in its entirety Location and Design. Hoistway access switches shall conform to 2.12.7.2.1 through 2.12.7.2.35. 2.12.7.2.1 The switch shall be installed a minimum of 1200 mm (48 in.) and a maximum of 1825 mm (72in.) above the floor measured to the centerline of the switch, adjacent to or part of the hoistway entrance at the landing with which it is identified., and in one of the following locations: (a) on the wall outside of the hoistway within 300 mm (12 in.) of the entrance frame (b) on the hoistway entrance frame or jamb (c) on the sight guard		[OEM][I]-field verifiable Changes to location of hoistway access key switch [E]- prints demonstrate protection against single failure
50–52	2.12.7.2	2016	Hoistway Access Switches Revised in its entirety 2.12.7.2.2 Where the switch is located on the sight guard, the sight guard shall accommodate and support the load of the switch and its wiring. 2.12.7.2.23 The switch shall be of the continuous-pressure spring-return type, and shall be operated by a cylinder-type lock having not less than a five-pin or five-disk combination, with a key removable only when the switch is in the "OFF" position. The key shall be Group 1 Security (see 8.1). 2.12.7.2.34 The electric contacts in the switch shall be positively opened mechanically; their openings shall not be solely dependent on springs. 2.12.7.2.5 Where the signal from the switch is transmitted through wiring that moves due to door opening or closing, the design shall be such that any single ground or short circuit shall not render any hoistway door or car door interlock, or car door or gate electric contact, or hoistway door combination mechanical lock and electric contact ineffective or cause car movement.		

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50-	-52	2.12.7.3.3		Hoistway Access Operation Subparagraphs (c) and (e) revised The movement of the car initiated and maintained by the access switch at the-lowest landing, if this landing is the normal means of access to the pit, shall be limited in-the up- direction to the point where the bottom of the platform guard is even with-hoistway entrance- header. If the lowest landing is the normal means of access to the pit, the hoistway access switch shall enable the car to move in the up direction to a point between 2130 mm (84 in.) and 2450 mm (96 in.) from the floor level to the bottom of the platform guard, unless the travel of the car limits such movement.	This clarifies the requirement that the hoistway access switch be able to raise the car high enough for elevator personnel to safely access and egress the pit unless the car is incapable of traveling to such an elevation	[OEM] [I] requirement for travel distance of car when hoistway access is used at the lowest landing
	1	2.13 Pow	er Op	eration of Hoistway Doors And Car Doors		
50-	-52	2.13.2.1.1	2016	Revised Power opening shall occur only at the landing where the car is stopping, or is leveling, or at rest, and shall start only when the car is within the unlocking zone (see 2.12.1)	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	[OEM] [I[Pre-opening only when; - car is stopped OR - in the NEW unlocking zone
5	66	<u>2.13.3.4.10</u>		Subparagraphs (a) and (c) editorially revised (a) Continuous-pressure closing of the car door or gate and hoistway door shall be in compliance with 2.13.3.4.1. (c) Sequence operation shall be in compliance with 2.13.6.1.		

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	2.14 Car E	Enclo	sures, Car Doors and Gates, and Car Illumination		
58, 59	<u>2.14.1.5.1</u>		Top Emergency Exits Subparagraphs (e) and (f) revised (e) Where elevators installed in enclosed hoistways are provided with special car top treatments such as domed or shrouded canopies, the exit shall be made accessible, including the car top refuge space as specified in 2.4.12 (f).2.14.1.5.1(f) (f) Immediately adjacent to the top emergency exit there shall be a space available for standing when the emergency exit cover is open. This space shall be permitted to include a portion of the refuge area (see 2.4.12). area required in 2.14.1.6.2.	car top refuge space term removed as no longer used for car tops Rationale: Refuge space is no longer specified in the code when on top of the car for new elevators. A space adjacent to emergency exit is required on car top treatments such as domed or shrouded canopies for two persons to stand.	fyi - revised terminology the term refuge space is no longer used for car tops (the term remains for pits)
58, 59	2.14.1.7.1	2016	Railing and Equipment on Car Enclosure Top First sentence revised A standard railing conforming to 2.10.2 shall be provided on the outside perimeter of the car enclosure top, on all sides where a 300 mm (12 in.) ball can pass the perpendicular distance between the edges of the car enclosure top and the adjacent hoistway enclosure exceeds 300 mm (12 in.) horizontal clearance and on sides where there is no hoistway enclosure. If clearances require (see 2.14.1.7.2) the standard railing to be located more than 100 mm (4 in.) from the edge of the outside perimeter of the car enclosure top, the top of the car enclosure outside of the railing shall be clearly marked. The marking shall consist of alternating 100 mm (4 in.) diagonal red and white stripes. The forces specified in 2.10.2.4 shall not deflect the railing beyond the perimeter of the car top.	where perpendicular distance from working platform to wall exceeds 300mm, is now revised. Gap now to resist 300mm diameter ball Rationale: The current requirements would require a railing in a situation where there is a horizontal clearance of 12 in. (300 mm) between the working platform or car enclosure top and the hoistway enclosure which is only 1 in. wide or wide enough to fit a ruler, tape measure or laser. The intent of the requirement is to protect against fall hazards. Anthropometric data from A17.1/B44.7 Appendix C shows the body thickness to be 342 mm, so a 300mm circular space in all orientations as defined by a 300 mm (12 in.) sphere would be small enough to provide protection from the fall hazard.	[I] - inspector can better address hazards and whether guarding is required or not. Better clarification to help identify fall hazard. Repeated from working platforms in 2.7
58, 59	2.14.1.7.2	2016	Revised When the car has reached its maximum upward movement (2.4.6.1), tThe following minimum clearances shall be provided from the top rail and intermediate rail of the standard railing, as specified in 2.10.2, to the building structure or elevator equipment in relative motion to the standard railing not attached to the car: (a) when the car has reached its maximum upward movement (2.4.6.1): (a1) 100 mm (4 in.) vertically (2) 300 mm (12 in.) horizontally towards the centerline of the car enclosure top (b) throughout the hoistway, (b) 100 mm (4 in.) horizontally in the direction towards the hoistway enclosure,. (c) 300 mm (12 in.) horizontally towards the centerline of the car enclosure top. NOTE: (2.14.1.7.2): See Nonmandatory Appendix G.	Top and Mid rail handrail running clearances shall be 100mm (4 in.) throughout the hoistway Rationale: Revised to ensure protection of elevator personnel against shearing hazards throughout the hoistway between the top rail and intermediate rail of the standard railing and fixed equipment passed or approached by the standard railing as the car moves throughout the hoistway	dimension field verifiable at inspection

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62	2.14.4.2.4	2016	Door and Gate Electric Contacts and Door Interlocks Subparagraphs (a) and (b) revised Car door interlocks shall (a) prevent operation of the driving machine when the car door is not in the closed and locked position, except (1) when the car is within the unlocking zone (see 2.12.1), for that entrance (2) under the conditions specified in 2.14.4.2.3(a) (b) prevent opening of the car door from within the car, except when the car is in the unlocking zone (see 2.12.1), for that entrance	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
64	<u>2.14.5.7</u>	2016	Restricted Opening of Car Doors Phrasing corrected by errata		
64	2.14.5.7.1	2016	Revised When a car is outside the unlocking zone (see 2.12.1), the car doors shall be so arranged that when in the closed position they shall be restricted from opening more than 100 mm (4 in.) from inside the car.	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
64	2.14.5.7.3	2016	Revised The doors shall be openable from within the car (see 2.14.5.8) when the car is within the unlocking zone (see 2.12.1), except as specified in 2.14.5.7.4(b)(1).	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
64	2.14.5.7.4	2016	In subpara. (b)(2)(-a), "sufficient" corrected by errata to "insufficient"		
64	2.14.5.8	2016	Manual Opening of Car Doors First sentence revised Car doors shall be so arranged that when the car is stopped within the unlocking zone (see 2.12.1 and 2.14.5.7.3) and power to the door operator is cut off, they and the mechanically related hoistway door, if any, shall be movable by hand from inside the car except as specified in 2.14.5.7.4(b)(1). The force required at the edge of sliding doors to move them shall not exceed 330 N (75 lbf).		
65, 66	2.14.5.10	2016	Folding Car Doors Revised and redesignated as 2.14.6.4	folding car doors moved to freight only section	folding car door requirements moved to the freight section only
65, 66	2.14.6.1.1	2016	Freight Elevator Car Doors and Gates - Type of Gates Revised For elevators designed for Class A loading (see 2.16.2.2), car gates shall be the vertically sliding type (see 2.14.6.2), the horizontally sliding collapsible type (see 2.14.6.3), or a car door of the folding type (see 2.14.5.9 2.14.6.4).	folding car door reference corrected	

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65, 66	2.14.6.4	2016	2.14.6.4.3 Folding car doors shall not be power opened to a distance exceeding one-third of the clear opening, and in no case shall the distance be more than 250	folding car doors moved to freight only section RATIONALE: Folding doors are prohibited for passenger elevators (see 2.14.5.2.) for new installations. Folding car doors are permitted for freight elevators (see 2.14.6). The original intent of adding folding car door requirements 2.14.5 was for the replacement of existing folding car doors. However, replacement criteria does not belong in Part 2, but belongs in 8.6. The proposed 8.6.3.15 is based on approved TN 06-431. The original intent was for the replacement of folding car doors. It has been renumbered because A17.1-2013 already has an 8.6.3.13. 2.14.4.6 (Strength of Doors, Gates, and Their Guides, Guide Shoes, Tracks, and Hangers) applies to both passenger elevators and freight elevators.	[I][E] - folding car doors are not permitted on passenger elevators. Folding car doors are permitted on freight elevators.

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2.15 Car F	rame	es and Platforms		
2.15.6.3	2016	Steels of Other Strength Revised Requirements for Metals Other Than Steel. provided the metal used has the essential properties to meet all the requirements for the purpose in accordance with good sound engineering practice, and provided the stresses and deflections conform to 2.15.10 and 2.15.11, respectively.	revise good engineering practice to sound engineering	
2.15.7.2	2016	Connection Between Car Frame and Platform Revised 2.15.7.2 Connection Between Car Frame and Platform. The attachment of the platform to the car frame shall be done in accordance with good sound engineering practice and shall develop the required strength to transmit the forces safely from the platform to the car frame in accordance with 2.15.10. Bolts, nuts, and welding, where used, shall conform to 2.15.7.3.	revise good engineering practice to sound engineering	
2.18.5.3	2016	Design of Governor-Rope Retarding Means for Type B Safeties Last sentence revised 2.18.6.2 The means shall be set to allow the governor rope to slip through the speed governor at a rope tension (the governor pull-through tension) higher than required to activate the safety or to trip the releasing carrier as specified in	update to governor rope factor of safety 2.18.5.1 The factor of safety of governor ropes shall be not less than 5. Where provided, ropes of a diameter less than 9.5 mm (0.375 in.) shall have a factor of	[OEM] [E] - change to governor rope Fs
	2.15 Car F 2.15 Car F 2.15.6.3 2.15.7.2 2.18 Spee Table 2.18.2.1 2.18.5.3	2.15 Car Frame 2.15 Car Frame 2.15.6.3 2016 2.15.7.2 2016 2.18 Speed Go Table 2.18.2.1 2016 2.18.5.3 2016	2.15.6.3 2.15.6.3 2.15.6.3 2.15.6.3 2.15.6.3 2.15.6.3 2.16 2.16 2.17 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.10 2.11	2.15 Car Frames and Platforms Steels of Other Strength Revised Requirements for Metals Other Than Steel. provided the metal used has the essential properties to meet all the requirements for the purpose in accordance with geed Sound engineering practice, and provided the stresses and deflections conform to 2.15.10 and 2.15.11, respectively. Connection Between Car Frame and Platform Revised 2.15.7.2 Connection Between Car Frame and Platform. The attachment of the platform to the car frame shall be done in accordance with ged Sound engineering practice and shall develop the required strength to transmit the forces safely from the platform to the car frame in accordance with 2.15.10. Bolts, nuts, and welding, where used, shall conform to 2.15.7.3. 2.18 Speed Governors 2.18.52 2016 Last paragraph revised Design of Governor-Rope Retarding Means for Type B Safeties Last sentence revised 2.18.6.2 The means shall be set to allow the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor pull-through tension) higher than required to activate the safety or to trip the releasing carrier as specified in 2.17.15. The maximum tension in the rope shall not be less 2.18.6.2 The means shall be set to allow the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor at a rope tension (the governor rope to slip through the speed governor rope shall be not less than 5. Where provided, ropes of a diameter less than 9.5 mm (0.375 in.) shall have a factor of safety of the rope shall not be less

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	2.20 Susp	ensi	on Means and Their Connections				
84–86	2.20.2.2.1	2016	Data Tag at Suspension Means Fastening Subparagraph (d) revised	update a cross reference			
84–86	2.20.3	2016	Factor of Safety Second paragraph revised	revise good engineering practice to sound engineering			
84–86	<u>2.20.8.1</u>	2016	Protection Against Traction Loss First paragraph and subparas. (d)(2) and (f) revised 2.20.8.1 Protection Against Traction Loss. All electric traction elevators shall be provided with a traction loss detection means to detect loss of traction between suspension members and the drive sheave [see 8.6.1.2.1(f) 8.6.1.2.2(b)(5)]. This means shall (d) once actuated by traction loss, comply with the following: (1) The traction-loss detection means shall remain actuated until manually reset. (2) The car shall not start or run unless the traction loss detection means is manually reset [see 8.6.1.2.1(f) 8.6.1.2.2(b)(5) and 8.6.11.11] (f) be included in the Maintenance Control Program On-Site Documentation [see 8.6.1.2.1(f) 8.6.1.2.2(b)(5)] with sufficient detail to ensure that testing can be accomplished by elevator personnel	Rationale: Updated section name of referenced requirement and requirement number.			
84–86	2.20.8.2	2016	Broken Suspension Member Subparagraph (c) revised 2.20.8.2 Broken Suspension Member. All electric traction elevators, excluding those with steel wire ropes greater than or equal to 8 mm (0.315 in.), shall be provided with a broken-suspension-member detection means. The means shall (c) be arranged to be tested in accordance with the requirements in 8.10.2.2.2(ss)(1), and instructions for testing shall be included in the Maintenance-Control Program On-Site Documentation [see 8.6.1.2.1(f) 8.6.1.2.2(b)(5)] with sufficient detail to ensure that testing can be accomplished by elevator personnel	Rationale: Updated section name of referenced requirement and requirement number.			
84–86	2.20.8.3	2016	Suspension-Member Residual Strength. All electric traction elevators, excluding those with steel wire ropes, shall be provided with residual-strength detection means. The means shall (c) be arranged to be tested in accordance with the requirements in 8.10.2.2.2(ss)(2), and instructions for testing shall be included in the Maintenance Control Program On-Site Documentation [see 8.6.1.2.1(f) 8.6.1.2.2(b)(5)] with sufficient detail to ensure that testing can be accomplished by elevator personnel	Rationale: Updated section name of referenced requirement and requirement number.			

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	2.22 Buff	ers aı	nd Bumpers		
93	2.22.1.1	2016	Type of Buffers First paragraph revised, and 2.22.1.1.4 through 2.22.1.1.6 added 2.22.1.1 Type of Buffers. Buffers of the spring, oil, elastomeric or equivalent type shall be installed under the cars and counterweights of passenger and freight elevators subject to the requirements of 2.22.1.1.1 through 2.22.1.1.35. Buffers shall be designed considering sound engineering practice. 2.22.1.1.4 Elastomeric buffers shall be permitted to be used where the rated speed is not in excess of 1 m/s (200 ft/min). 2.22.1.1.5 The use of elastomeric buffers shall comply with all conditions of use as specified by the buffer manufacturer. Such conditions may include but are not limited to temperature, humidity or other environmental and life-cycle conditions that may affect buffer performance. 2.22.1.1.6. Elastomeric buffers shall be securely fastened to their support structures.		[E] [I] - Elastomeric buffers now recognized in the code. [OEM] = permission and speed limitation
93	2.22.2	2016	Solid Bumpers In first paragraph, last sentence added Solid bumpers are permitted on elevators having a rated speed of 0.25 m/s (50 ft/min) or less.	specify limits for solid bumpers on electric elevators (0.25 m/s)consistent with hydraulic elevators.	[E] [I] -add solid bumper speed limits to electric elevators [OEM] = permission and speed limitation
94	2.22.4.5	2016	Plunger Return Requirements Revised Plunger Return Requirements 2.22.4.5.1 Plunger Return Requirements 2.22.4.5.2 Plunger Lateral Movement Requirements The clearance between the plunger and the cylinder in spring-return or gravity-return type oil buffers shall be limited and the materials and surface finishes so specified and controlled, so as to ensure that the plunger will not seize or stick in the cylinder during or after an impact of the fully loaded car on the buffer at 115% of rated speed. In addition, the clearance shall be limited so as to ensure that one half of the total lateral movement of the plunger relative to the cylinder shall not exceed 5 mm/m (0.06 in/ft) of buffer stroke. This corresponds to a maximum angle of inclination from the vertical of 0.005 radians (17.18 minutes of arc).	Inclusion of design requirements relating to lateral movement of the plunger (2.22.4.5.2). Move existing requirements to new section 2.22.4.5.1	[OEM] design requirement

			Change	CHANCE NOTES	
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96	2.22.5	2016	Elastomeric Buffers Added Elastomeric Buffers 2.22.5.1 Retardation Buffers shall not develop (a) an average retardation in excess of 9.81 m/s2 (32.2 ft/s2), and (b) a retardation greater than 24.5 m/s2 (80.5 ft/s2), having a duration exceeding 0.04 s. with any load in the car, from rated load to a minimum load of 70 kg (154 lb), when the buffers are struck with an initial speed of not more than 115% of the rated speed, and (c) a maximum retardation not in excess 58.86 m/s2 (193.2 ft/s2) as measured using a 100 Hz low pass filter. 2.22.5.2 Return Speed Upon activation (compression) of the buffer, the return speed of the car or counterweight shall not exceed 1 m/s (200 ft/min.). 2.22.5.3 Deformation There shall be no permanent deformation of the buffer after actuation and the buffer shall return back to its uncompressed state within 30 minutes. 2.22.5.4 Full Compression. For elastomeric buffers, "full compression" means a compression of 90 % of the installed buffer height without considering fixation elements of the buffer which might limit the compression to a lower value.	add requirements for elastomeric buffers	[OEM] design requirement [I] fyi re: full compression 90% of installed buffer height
96	2.22.5	2016	Type Tests and Certification for Elastomeric Buffers 2.22.5.5 Type Tests and Certification for Elastomeric Buffers 2.22.5.5.1 Each type of elastomeric buffer shall be subjected to the type tests as specified in 8.3.13 and to the certification process as specified in 8.3.1.	add requirements for elastomeric buffers to be certified	[OEM] certification requirement
96	2.22.5	2016	Buffer Marking Plate 2.22.5.6 Buffer Marking Plate. Elastomeric buffers shall be provided with a marking plate. The buffer marking plate shall include the following data provided in a legible and permanent manner: (a) the maximum and minimum loads and the maximum striking speeds for which the buffer has been rated for use in conformance with the requirements in 2.22 (b) the name, trademark, or file number by which the organization that manufactured the product can be identified (c) the certification marking in accordance with 8.3.13.7 (d) specific conditions of use (where applicable) for elastomeric buffers, see 2.22.1.1.5. (e) the maximum stroke (compression) of the buffer.	add marking plate requirements for elastomeric buffers	[OEM] [I] Buffer marking plate requirements are specific. [OEM] Conditions of use important based on environment. MCP to define checking methods to ensure buffer integrity.

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	2.24 Drivi	ng Ma	achines and Sheaves		
108, 109	2.24.8.6	2016	Driving-Machine Brake Design Revised The driving-machine brake design shall ensure contact of the friction material on the braking surface consistent with good sound engineering practice. Means shall be provided to protect the braking surfaces from contamination caused by any driving-machine fluid leak.	revise good engineering practice to sound engineering	
	2.25 Term	ninal S	Stopping Devices		
108, 109	2.25.2.1.2	2016	Normal Terminal Stopping Devices - Where Required and Function First paragraph revised The normal terminal stopping devices (i.e., those devices used for sensing relative changes in car position)	To clarify the intent of the term "devices" as used in requirement 2.25.2.1.2.	
108, 109	2.25.3.2	2016	Final Terminal Stopping Devices - Where Required and Function Third paragraph revised (Where spring buffers or elastomeric buffers are provided, the device shall function before the buffer is engaged.)	add reference to elastomeric buffers	
111	2.25.4.1.8		Emergency Terminal Speed-Limiting Device Subparagraph (a) revised from "except where 2.25.4.1.9(a)(1) or 2.25.4.1.9(a)(2) is complied with" to (except where 2.25.4.1.8(a)(1) or 2.25.4.1.8(a)(2) is complied with)	update a cross reference > to point to correct exception.	

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	2.26 Oper	ating	Devices and Control Equipment		
116	2.26.2.5	2016	Emergency Stop Switch Subparagraph (b) revised (b) have red operating handles or buttons of the push-to-stop configuration	Emergency stops are required to be "push-to-stop". Toggle or rocker type switches are not permitted	[I] field verifiable [OEM] push to stop clearly stated
118	2.26.4.2	2016	Electrical Equipment and Wiring Note added NOTE: Enclosures for motor controllers installed outside the specified spaces listed in 2.7.6.3.2 will require the additional marking "AGP" (Accessible to General Public) to indicate that the equipment enclosure is suitable for this application.	Enclosures for motor controllers installed outside the hoistway, not in a machine room, control room or control space need the additional marking AGP. B44.1 includes additional requirements for certification in order to allow the AGP marking	[OEM] [I] field verifiable
118	2.26.4.3.1	2016	Note added NOTE: Positive opening is achieved when all the contact-breaking elements are brought to their open position and when for a significant part of the travel there are no resilient members (e.g., springs) between the moving contacts and the part of the actuator to which the actuating force is applied. An example of this is a contact complying with the requirements of IEC 60947-5-1:2004, Annex K.	To clarify the concept of contacts that are positively opened mechanically Rationale: To clarify "positively opened" for the users of the Code. This also substantially harmonizes with EN 81.	
121, 122	2.26.7	2016	The installation of capacitors or other devices, the operation or failure of which will cause an unsafe operation of the elevator, is prohibited. No permanent	The permission to render ineffective the in-car stop switch and in-car emergency stop switch (2.27.3.1.6(c)) was removed; the in-car stop switch and in-car emergency stop switch must remain operative all the time including during Phase I recall	[E] submission verified [I] field verifiable
121,	2.26.8.2	2016	Release and Application of Driving-Machine Brakes 2nd para revised One of the means shall be either a contactor, or SIL rated device(s) with a SIL of not less than the highest SIL of the function for the electrical protective devices involved with removing power from the brake and shall be listed/certified in accordance with the applicable requirements of IEC 61508-2 and IEC 61508-3. SIL rated devices shall be identifiable on wiring diagrams (see 8.6.1.6.3) [see 8.6.1.2.2(a)] with part identification, SIL, and certification identification information that shall be in accordance with the certifying organization's requirements. This means is not required to remove power from the driving-machine motor.	Reference to the applicable clause in 8.6 updated	
121, 122	2.26.9.3.2	2016	Protection Against Failures Subparagraph (b) revised (b) the software system and related circuits are listed/certified to a SIL rating that is in accordance with the applicable requirements of IEC 61508-2 and IEC 61508-3. This software system and its related circuits shall have a SIL of not less than the highest SIL value of the safety function(s) in Table 2.26.4.3.2 used in the circuit. The software system and related circuits shall be identifiable on wiring diagrams (see 8.6.1.6.3) [see 8.6.1.2.2(a)] with part identification, SIL, and certification identification information that shall be in accordance with the certifying organization's requirements. Assemblies containing SIL rated devices shall be labeled or tagged with the statement: "Assembly contains SIL rated devices.	Reference to the applicable clause in 8.6 updated Refer to Maintenance Control Program and wiring diagrams prior to performing work."	
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	2.27 Eme	rgend	cy Operating and Signaling Devices		
126	2.27.2.4.4	2016			[I]field verifiable Added requirement; [OEM] [I] Once the selected car has returned to the designated level or fails to move within 30 seconds, the selection shall be automatically transferred to another elevator.
126	2.27.2.4.4	2016	(b) An elevator on designated attendant operation, hoistway access operation, inspection operation, or Firefighters' Phase II In-Car Emergency Operation shall operate in accordance with those requirements and shall remain selected until the car is stopped for a period of not less than 2 minutes, and not more than 3 minutes, before the selection shall be automatically transferred to another elevator. For cars on Firefighters' Phase II In-Car Emergency Operation, the in-car visual signal [2.27.3.1.6(h) and 2.27.3.3.8] shall activate only while the car is selected. (c) An elevator that is on Firefighters' Phase I Emergency Recall Operation shall return to the recall level in accordance with 2.27.3.1 or 2.27.3.2. Once recall is complete, or the selected car fails to move within 30 seconds, the selection shall be automatically transferred to another elevator. (c) If any selected car does not move for more than 20 s to 30 s, the selection shall be transferred to another car, until all elevators have been selected. (d) After all elevators have been selected, the process shall repeat for any carsthat failed to move to give them a second opportunity.	Hoistway access operation was inadvertently omitted from the list of operations that must be excluded when selecting the cars that will be automatically returned on emergency/standby power operation to the recall level in accordance with 2.27.2.4.4(a). Provided the performance requirement of a minimum of 2 minutes for the in-car operator to move the car and eliminated the prescriptive requirements.	

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127	2.27.3.1.6		Subparagraphs (c) revised 2.27.3.1.6(c) When provided, the in-car stop switch (see 2.26.2.21) or the emergency stop switch in the car (see 2.26.2.5) shall not be made ineffective.	Previously in-car stop switches or emergency stop switches where rendered in operative. Now the requirement keeps them active. The rationale is they are now required to be group 1 and only available to elevator personnel, who would have cause or reason to actuate these switches.	field verifiable [OEM] design requirement
127	2.27.3.1.6	2016	Subparagraphs (d) revised 2.27.3.1.6(d) A car standing at a landing other than the designated level, with the doors open and the in car stop switch and the emergency stop switch in the car, when provided, in the run position, shall proceed to the designated level if the doors are closed, or shall conform to the following if the doors are not closed:	Requirement only explained Phase 1 Emergency Recall when the doors are in the open position, this modification is to include Phase 1 Emergency Recall requirements when initiated with the doors in the closed position. (ie proceed to the designated level)	field verifiable
129–1 31	2.27.3.2.1	2016	Note added	NON NBCC jurisdictions	
129–1 31	2.27.3.2.2	2016	Note (2) added (2) 2.27.3.2.2(b): A machinery space containing a motor controller or driving machine located in the elevator hoistway, or a control space located in the elevator hoistway requires a fire alarm initiating device regardless of the presence of sprinklers.	Clarify that FAID's in machinery spaces includes these forms of machinery spaces as well.	
129–1 31	<u>2.27.3.2.4</u>	2016	Subparagraph (c) revised	remove a reference to in-car stop switches due to changes related to in-car stop switches	
129–1 31	2.27.3.3.1	2016	Subparagraph (c) revised	Add a reference to see 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
132	<u>2.27.3.3.7</u>	2016	Second paragraph revised When required as part of the fire department communication system, a phone jack shall be permitted to be installed in the firefighters' operation panel below the level of the "FIRE OPERATION" switch. No other equipment shall be permitted in the firefighters' operation panel.	Rationale: To specify the location of the phone jack when it is provided as part of the fire department communication system.	
133	2.27.3.3.8	2016	Revised	relates to 2.27.3.3.8: Additional visual signal specify that an additional visual signal shall activate and deactivate the same as the signal required in 2.27.3.1.6(h)	
136	2.27.11.1.5	2016	Subparagraph (a) editorially revised	editorial only , no change to requirements.	

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	2.29 Ident	ifica	tion		
140, 141	2.29.1.1	2016	In buildings with more than one elevator, each elevator in the building shall be assigned a unique alphabetic, numeric, or alphanumeric identification. Where destination-oriented control for operation is provided, the same unique identifier for each elevator shall be used for both the destination-oriented designation and the designation.	revised add alphanumeric identification add identification requirements if using destination-oriented control	field verifiable
140, 141	2.29.1.2	2016	Revised in its entirety The identification assigned in 2.29.1.1 shall be a minimum of 50 mm (2 in.) in height unless otherwise specified, and of contrasting color to its background. The identification shall be painted on, engraved on, or securely attached to or adjacent to the following equipment associated with each elevator or the enclosures housing the following equipment associated with each elevator: (a) the driving machine (b) motor-generator set (c) operation controller, motion controller, and motor controller (d) selector (e) governor (f) disconnecting means (see NFPA 70, Article 620, or CSA C22.1, Section 38) (g) the crosshead, or where there is no crosshead, the car frame, such that it is visible from the hoistway landing (h) the car operating panel, a minimum of 13 mm (0.5 in.) in height	clarifications for requirements (c) and (g) New requirements added, see (i) to (n)	field verifiable
140, 141	2.29.1.2	2016	Identification of Equipment continued (i) on both doorjambs of every elevator entrance at the designated level, alternate level, level where means necessary for tests is provided (see 2.7.6.4), and level where an inspection and test panel is provided (see 2.7.6.5); this identification shall be a minimum of 50 mm (2 in.) in height and shall be located immediately below the floor designation, where provided (see Nonmandatory Appendix E, Clause E-17) (j) separately enclosed control components (e.g., motor circuit transformers, dynamic braking resistors, line rectifiers, or chokes) (k) means to trip and/or reset the governor from outside the hoistway as permitted by 2.7.6.3.4 (l) means necessary for tests (see 2.7.6.4) (m) inspection and test panel (see 2.7.6.5) (n) buffers or pit channel in the pit, visible from the pit access door landing	Revised in its entirety clarifications for requirements (c) and (g) New requirements added, see (i) to (n)	[I] field verifiable new locations where equipment identification is required
140, 141	<u>2.29.1.3</u>	2016	Subparagraph (i) revised (i) the earthquake reset button or switch as required by 8.4.10.1.1(a)(2)(b) 8.4.10.1.1(d)	revised clause	

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	PART 3				
	3.6 Protect	ction	of Spaces Below Hoistway		
144	3.6.3	2016	Subparagraph (c) added: (c) elastomeric buffers of a design that will not be fully compressed when struck by a car with rated load at the operating speed in the down direction (see 3.22.1)	New requirement for elastomeric buffers	OEM design requirement
	3.22 Buffe	ers ar	nd Bumpers		
154	3.22.1.2.1	2016	Added: Elastomeric buffers shall be capable of withstanding the loading per 8.2.3.1, without being compressed 90% of the installed buffer height (see 2.22.5.4).	Revised to provide clarity of compression differences of spring and elastomeric buffers. New requirements for elastomeric buffers.	new requirements for elastomeric buffers OEM design requirement
154	3.22.1.2.2	2016	Revised: Spring buffers shall be compressed	To clarify the requirement is for spring buffers	
	3.26 Oper	rating	Devices and Control Equipment		
157–1 59	<u>3.26.8</u>	2016	Revised:when the car is within the unlocking zone (see 2.12.1).	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
	3.27 Eme	rgend	cy Operation and Signalling Devices		
157–1 59	3.27.2	2016	Revised: (a) If any of the devices specified in 3.27.1(a), (b), (c), or (d) is activated, while Phase I Emergency Recall Operation is in effect but before the car reaches the recall level, the car shall do one of the following: (1) If the car is above the recall level, it shall complete Phase I Emergency Recall Operation. (2) If the car is below the recall level, it shall descend to an available floor. (b) Upon arrival, automatic power-operated doors shall open, and then reclose within 15 s. The door open button(s) shall remain operative. The visual signal [see Fig. 2.27.3.1.6(h)] shall extinguish.	Editorial, re-lettered subclauses and rearranged text.	
157–1 59	3.27.4	2016	Revised: If any of the devices specified in 3.27.1(a), (b), (c), or (d) activate while the elevator is on Phase II Emergency In-Car Operation, an upward traveling car shall stop and a downward-traveling car shall stop at or before the next available floor.	Additional requirements for when the car is moving upwards or downwards .	OEM design requirements.

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	PART 4				
	4.1 Rack-		Pinion Elevators Revised in its entirety		References in 4.1 are tied back
160–1 67	Section 4.1		Revised in its entirety		to Section 2 requirements
	4.2 Screw	Colu	mn Elevators		
160–1 67	4.2.2.3	2016	Revised		
160-1	4.2.2.4	2016	Revised		
67	PART 5				
	Scope				
	5.1 Incline	ed Ele	evators		
176	5.1.11.4	2016	Revised	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
	5.2 Limite	d-Use	e/Limited-Application Elevators		
182, 183	5.2.1.13	2016	Power Operation of Hoistway Doors and Car Doors. Revised: Power Operation of Hoistway Doors and Car Doors. When provided, power operation, power opening, and power closing of hoistway doors and car doors shall conform to 2.13, except as modified by 5.2.1.13. (a) Requirement 2.13.1 does not apply. Both car and hoistway doors shall be of the horizontally sliding type or a power-operated swinging hoistway door with a power-operated horizontally sliding car door shall be permitted. Power operation of accordion or bifold type car doors shall be permitted. (b) Vertically sliding doors shall not be permitted. Power Operation of Hoistway Doors and Car Doors. Power operation of hoistway doors and car doors shall conform to Section 2.13 except that vertically sliding doors shall not be permitted.	Remove the Hoistway doors and Car Doors types (Swing) that fall under horizontally sliding doors to match section 2.13. Remove the permission to have power operation for accordion and bifolding door due to the increasing number of incidents where these door types have been installed.	[OEM] Requirements modified to eliminate folding car doors on LULA applications
182, 183	5.2.1.14	2016	Car Enclosures, Car Doors, and Car Illumination (1) Former subpara. (f) deleted, and remaining subparagraphs redesignated (f) Requirement 2.14.4.3 does not apply. Doors shall be of the horizontally sliding, accordion, or bifold type and so arranged to reduce the possibility of pinching. Material shall conform to 2.14.2.1.	Accordion door and bifold door types are not permitted	Requirements modified to eliminate folding car doors on LULA applications
182, 183	5.2.1.14		(2) Subparagraphs (k) and (l) [formerly subparas. (l) and (m), respectively] revised (l) Requirements 2.14.5.2 and 2.14.5.3 do not apply. (k) Requirement 2.14.5.3 does not apply.	Folding doors are not permitted as 2.14.5.3 is required	Design and inspection as per written requirements.

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182, 183	5.2.1.14	2016	(3) Subparagraph (m) added (m) Requirement 2.14.6.4 does not apply. Folding doors are not permitted.		
182, 183	5.2.1.15.2	2016	Platform Guards Revisedthe depth of the unlocking zone (see 2.12.1)	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
182, 183	5.2.1.22	2016	Buffers and Bumpers Revised 5.2.1.22 Buffers and Bumpers. Buffers and bumpers shall conform to 2.22, except- as modified by 5.2.1.22.1. 5.2.1.22.1 Bumpers. Elastomeric bumpers capable of absorbing the energy of a- fully loaded car shall be permitted to be used. The average deceleration shall be- less than 9.81 m/s2 (32.2 ft/s2) with any load between 61 kg (135 lb) and rated- load.	Rationale: This exception is no longer required since elastomeric buffers are now included in 2.22.	
185	5.2.2.5	2016	Car Safeties, Counterweight Safeties, Plunger Gripper, and Governors Revised 5.2.2.5 CAR SAFETIES, COUNTERWEIGHT SAFETIES, PLUNGER GRIPPER, AND GOVERNORS Alternative to Speed Governor for Roped Hydraulic Elevators. Car and counterweight safeties and plunger gripper shall conform to 3.17, except as modified by 5.2.2.5.1 and 5.2.2.5.2. NOTE: See also 5.2.1.18. 5.2.2.5.1 The safeties on roped-hydraulic elevators shall be operated by a speed governor or where an overspeed valve conforming to 3.19.4.7 is provided, the safeties shall be permitted to be operated by inertia where an overspeed valve conforming to 3.19.4.7 is provided. 5.2.2.5.2 Upon the parting of the suspension ropes, the safeties shall apply without appreciable delay and their application shall be independent of the location of the break in the ropes and shall be permitted to be accomplished by the use of restrained compression springs or by the action of gravity, or by both, or by positive mechanical means.	Rationale: Title was updated to clarify the requirements covered by this section to include all types of hydraulic LULA elevators. Changes were also included to clarify that safeties operated by inertia are an alternative to speed governors on roped-hydraulic LULA elevators that have an overspeed valve conforming to 3.19.4.7.	[E] [I] safeties operated by inertia are an alternative to speed governors on roped-hydraulic LULA elevators that have an overspeed valve

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	5.3 Privat	e Res	idence Elevators		
186	5.3.1.7.1	2016	Revised		
187,	5.3.1.7.2	2016	Revised		
188 187,					
188	5.3.1.8.2		Subparagraph (d) added	Part 5.3 not adopted in Ontario.	
187,	5.3.1.8.3	2016	New 5.3.1.8.3 added, and former 5.3.1.8.3 redesignated as 5.3.1.8.4		
188 190	5.3.1.14.1	2016	Revised		
193	5.3.1.19		Revised in its entirety		
155	5.6 Roofto				
201	5.6.1.4	_	Revised		
201			pose Personnel Elevators		
205	5.7.1.2		Revised		
205	5.7.2		Revised in its entirety		
205	5.7.3.2		Revised		
205	5.7.4.2		Revised		
205	5.7.4.3	2016	Added		
207	5.7.10.4.1	2016	Revised		
207	5.7.13.1	2016	Revised		
207	5.7.13.2	2016	(1) First paragraph revised		
207	5.7.13.2	2016	(2) Former 5.7.13.2.2 deleted, and former 5.7.13.2.3 redesignated as 5.7.13.2.2		
208	5.7.16	2016	Revised in its entirety	Part 5.7 not adopted in Ontario	
208	5.7.17	2016	Revised		
208	5.7.18.1.2		Revised		
209, 210 209,	5.7.18.1.3				
210	5.7.18.1.4	2016	Added		
209, 210	5.7.18.3		Revised		
209, 210	5.7.19		Revised in its entirety		
211	5.7.22 5.9 Mine I		Revised		
214	5.9.14.3				
214	5.9.14.3		Subparagraph (d) revised Revised in its entirety	Part 5.9 not adopted in Ontario	
215	5.9.27		Revised	i art 3.5 not adopted in Ortano	
213			ine Tower Elevators		
	3 1 11110	····	Revised	Elevators Used for wind turbine tower elevators shall conform to ASME A17.8	wind turbine tower elevators
220	Section 5.11	2016		A17.8 as a stand-alone document has migrated previous requirements to new numbered sections 2.1 to 2.28 as for electric elevators. A new Part 1 added to accommodate scope and definitions. Additional Sections for "welding" (2.29), Type Tests (2.30), MRR & tests (2.31), acceptance and periodic testing (2.32 & 2.33)	standard developed, removed from A17.1/B44-2016 and moved to a stand alone publication A17.8/B44.8

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	PART 6	1000					
227	6.1 Escala 6.1.3.10.1		Skirt Deflector Devices Revised: 6.1.3.10.1 Trusses and all supporting structures, including tracks, shall conform to the AISC Specifications for Design, Fabrication, and Erection of Structural Steelfor Buildings, ANSI/AISC 360-05 Specification for Structural Steel Buildings or the	Section 9.1 currently lists an old 1978 edition of AISC Book No S326 and the 1994 edition of CAN/CSAS16.1 and is referenced in multiple places in the A17.1 code for both elevators and escalators. Recent rewrites to the code (Seismic sections) have been updated to specify more recent AISC and CAN/CSA editions. The escalator and walk code is updated to specify these more recent editions with specific call out in the requirements			
227	6.1.3.10.2	2016	Editorially revised				
228	6.1.5.3.2		Main Drive Shaft Braking Revised: 6.1.5.3.2 Main Drive Shaft Braking. If the escalator driving-machine brake is separated from the main drive shaft by a chain used to connect the driving machine to the main drive shaft, either a) a mechanically or magnetically permanent magnet applied brake capable of stopping and holding a down-running escalator with brake rated load (see 6.1.3.9.3) shall be provided on the main drive shaft If the brake is magnetically applied, a ceramic permanent magnet shall be used. or b) multiple and separate chains, each with an individual drive-chain device in accordance with 6.1.6.3.4 and each with connection to the Escalator Driving-Machine Brake(s) and/or other brake(s) with capacity capable of stopping and holding a down-running escalator with brake rated load (see 6.1.3.9.3) shall be provided.	Duplication of a system, component, or part with monitoring of the function of each is a fundamental and long accepted practice to ensure reliability and safety. It is reasonable to allow this approach to ensure the level of safety in escalator drive systems that utilize power transmission chain between the main shaft and the driving machine and brake. In addition to ensuring the braking function in case of disengagement of a drive chain, potential improvements in emergency braking can be realized with this rule revision if the function of the machine brake is maintained in lieu of a main shaft brake. This includes possible utilization of the machine brake that is type tested, which would be checked and monitored on a periodic basis, and that is operated/exercised on a regular basis demonstrating proper function. 6.1.5.3.2 and 6.1.6.3.4 are revised to reflect the Inquiry answer to permit duplicate and monitored power transmission chains in lieu of a main shaft brake to ensure brake function.	main shaft brake to ensure brake function.		
230	6.1.6.3.4	2016	Drive-Chain Device Revised: 6.1.6.3.4 Drive-Chain Device. When the driving machine is connected to the main drive shaft by a chain, a device shall be provided that will cause the application of the brake on the main drive shaft, if so equipped (see 6.1.5.3.2 a), and will also cause the electric power to be removed from the driving machine motor and brake if the any drive chain between the machine and the main drive shaft becomes is engaged from the sprockets. The device shall be of the manual reset type.	See above.			

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232	6.1.6.7	2016	Escalator Braking-Distance Monitor Revised: 6.1.6.7 Escalator Braking Distance Monitor. A device shall be provided to monitor the performance of the driving machine brake(s). Whenever the driving machine brake is applied, the device shall detect when the maximum stopping distance as determined by 6.1.5.3.1(d)(5) or the minimum stopping distance based on the average stopping rate in 6.1.5.3.1(c) is not achieved and prevent the escalator from restarting. The device shall be of manual reset type (6.1.6.14).	The device is intended to monitor the stopping distance every time the escalator/moving walk is stopped to ensure correct brake operation. The min./max. stopping distance requirements are already defined described within the code.	[E] [I] [OEM] Note for Ontario CAD: Escalators to 2016 code or later do not require stopping distance check sign.
234	6.1.7.4.3		Electrical Equipment and Wiring Revised: 6.1.7.4.3 Control equipment shall be tested in accordance with the testing requirements of EN 12016 ISO 22200:2009. Control equipment tested in accordance with the testing requirements of EN 12016:1998 prior to one year after the effective date of this code need not be retested in accordance with the testing requirements of ISO 22200:2009. The control equipment shall be exposed by exposing it to interference levels at the test values specified for "safety circuits." The interference shall not cause any of the conditions described in 6.1.6.10.1(a) through (f). If enclosure doors or suppression equipment must remain installed to meet the above requirements, warning signs to that effect shall be posted on the control equipment.	To change electromagnetic interference test requirements for escalator and moving walk control circuits to an ISO standard in lieu of a European Standard. The revisions are not due to any known deficiencies with the current products or the previous EN Standard and have been previously made to elevator controls (see 2.26.4.4).	
	6.2 Movin	g Wa	lks		
239	6.2.3.11.1	2016	Revised: Trusses and all supporting structures, including tracks, shall conform to ANSI/AISC360-05 or CAN/CSA-S16.1-09, whichever is applicable (see Part 9), based on the maximum static load calculated per 6.2.3.10.1.	Specified which ANSI/AISC including year of standard is to be used.	
239	6.2.3.11.2	2016	Editorially revised: For driving-machine parts, the factors of safety shall be as follows, based on loads not less than those calculated per 6.2.3.10.2: (a) 8 where parts are made of steel or bronze (b) 10 where parts are made of cast iron or other materials	Clarify that this section is about factors of safety. There is no change in the requirement	None
240	6.2.5.3.1	2016	Subparagraph (d)(5) added: (5) the maximum stopping distance with rated load that corresponds to the minimum distance between the comb and the pallet when the pallet is positioned to activate any of the safety devices required in 6.2.6.3.9 and 6.2.6.5	Added requirement for what to include in the data plate for moving walk brakes	can be field verifiable

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243, 244	6.2.6.8	2016	Moving Walk Braking-Distance Monitor. A device shall be provided to monitor the performance of the driving-machine brake(s). Whenever the driving machine	Added requirement to have a device to monitor the driving-machine brake performance based on the min and max stopping distances on the data plate. What used to be 6.2.6.8 Signs is renumbered to 6.2.6.9 and content remains unchanged.	OEM to provide test method
245	6.2.7.4.3	2016	ISO 22200:2009. Control equipment tested in accordance with the testing requirements of EN 12016:1998 prior to 1 yr. after the effective date of ASME	Revised the required standard to be used for testing control equipment and included specific version of the standard. Permission is also provided to not have to retest the control equipment to the newly referenced ISO standard if the equipment was tested to the previously referenced EN 12016 standard based on the timeline provided. Referenced clauses within the standard was renumbered but content remains unchanged.	

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	PART 7				
			JMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES		
246	7.1.4.3.1		Editorially revised	i 	
247 247	7.1.4.3.2 7.1.7.10		Revised: 7.1.7.10 Requirement 2.7.6 does not apply except as follows: Controllers located outside the hoistway and not in machine rooms, control rooms, machine spaces or control spaces shall be enclosed in a locked cabinet. The locked cabinet shall comply with requirements 2.7.6.3.2.	Add requirement for Dumbwaiter controllers not located in machine rooms, machinery spaces, control rooms or control spaces	[OEM] [I] [E] Permission for controller outside of elevator spaces
249, 250	7.1.12.1.1	2016	Revised: 7.1.12.1.1 Hoistway door interlocks in conformance with 7.1.12.1.3 are required at all landings, except that hoistway door combination mechanical locks and electric contacts conforming to 7.1.12.1.2 shall be permitted to be used at the following landings: (a) at landings where the bottom of the door opening is 600 mm (24 in.) or more above the floor (b) the top terminal landing and the landing located not more than 1 220 mm (48 in.) below the top terminal landing, provided that the dumbwaiter rise does not exceed 4 570 mm (180 in.) (c) any landing whose sill is within 1 525 mm (60 in.) of the pit floor, regardless of the dumbwaiter rise.		OEM permission [E] [I] Verify at design review and in field
249, 250	7.1.12.1.3 (a)	2016	Revised: 7.1.12.1.3 Hoistway door interlocks, where provided, shall conform to the following: (a) where the rated speed of the dumbwaiter is greater than 0.5 m/s (100 fpm) (1a) requirement 2.12.2.2 (2b) requirement 2.12.2.3 (3e) requirement 2.12.2.4, except (a1) requirement 2.12.2.4.1 does not apply. (bb) requirement 2.12.2.4.6 applies but the force used shall be 225 N (50 lbs) (4d) requirement 2.12.2.5 (5e) requirement 2.12.2.6 (6f) requirement 2.12.4	No change for dumbwaiters with speeds greater than 0.5 m/s	

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249, 250	7.1.12.1.3(b)	2016	Revised: 7.1.12.1.3 Hoistway door interlocks, where provided, shall conform to the following: (b) where the rated speed of the dumbwaiter is less than or equal to 0.5 m/s (100fpm) (1) requirement 2.12.2.2 (2) The operation of a dumbwaiter driving machine when a hoistway door is not in the closed position (see 2.12.2.2) shall be permitted by a car levelling device (see 7.2.12.6), a hoistway access switch (see 7.1.12.4) or by an anticreep device (see 7.3.11.3). The operation of a dumbwaiter driving machine when hoistway door is unlocked, but in the closed position, shall be permitted by a car levelling device, a hoistway access switch, an anticreep device, or by the normal operating device when the car is within 75 mm (3 in.) above or below the landing.	Added permission for dumbwaiters with speeds less than or equal to 0.5 m/s to use redundant and checked bypass switches for the lock contact of the interlock within +/- 75 mm of the landing. (Matches the permissions for material lifts) See also 7.2.12.31	[OEM] [E] [I] Design review and field verifiable. Car can move 75mm (3") from the landing with doors closed but NOT LOCKED
	7.1.12.1.3(b)	2016	Hoistway door close contacts (see 7.2.12.31) shall be provided when the driving machine is operated with the hoistway door or gate unlocked, but in the closed position. The hoistway door close contacts shall be positively opened by the opening action of the door or gate. They shall be maintained in the open position by the action of gravity or by a restrained compression spring, or by both, or by a positive mechanical means. (3) requirement 2.12.2.4, except (a) requirement 2.12.2.4.1 does not apply. (b) requirement 2.12.2.4.3 does not apply. The interlock shall lock the door in the closed position with a minimum engagement of 7 mm (0.28 in) of the locking members before the interlock contacts are closed and before the driving machine can be operated except as permitted by 7.1.12.1.3(b)(2) (c) requirement 2.12.2.4.6 applies but the force used shall be 225 N (50 lbs) (4) requirement 2.12.2.5 (5) requirement 2.12.2.6 (6) requirement 2.12.4		

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	7.2 Electr	ic Du	umbwaiters without Automatic Transfer Devices		
			Revised:	Dumbwaiter capacity plates updated to be consistent with elevator capacity	field verifiable
			7.2.3.2 Capacity Plate. A metal capacity plate shall be fastened in a conspicuous	plates	
			place in the car and shall indicate the rated load in letters and numerals not less		
			than 6 mm (0.25 in.) high, stamped, etched, or raised on the surface of the plate.		
52	7.2.3.2	2016	Plates shall be of such material and construction that the letters and figures		
			stamped, etched, cast, or otherwise applied to the faces shall remain		
			permanently and readily legible. It shall indicate the rated load in letters and		
			numerals not less than 6 mm (0.25 in.) high.		
			Subparagraph (d) revised:	Change language for chain strength in four (4) places to be consistent with the	Field verify labeling on data
53	7.2.6.3.1	2016	rated breaking strength Minimum Ultimate Tensile Strength (MUTS)	ASME B29 code for Chain which only publishes the MUTS (minimum ultimate	plates. Design reviews
				tensile Strength)	verification of data.
53	7.2.6.3.2	2016	Subparagraph (c) revised: See above		
54	7.2.6.5	2016	Subparagraph (b) revised: See above		
54	7.2.6.8.1	2016	Subparagraph (b) revised: See above		
			New 7.2.12.31 added, and former 7.2.12.31 through 7.2.12.38 redesignated as	Added in conjunction with 7.1.12.1.3(b) to provide a clear indication that door	Design requirement
			7.2.12.32 through 7.2.12.39, respectively:	close contacts must be provided when operation with the door closed but not	
			7.2.12.31 Hoistway Door Close Contacts	locked is permitted by clause 7.1.12.1.3(b)(2). Confirm that the door close	
			Hoistway door close contacts, conforming to 7.1.12.1.3(b)(2) shall be provided for		
56	7.2.12.31	2016		of 2.26.9.3 as applicable.	
			within 75 mm (3 in.) above or below a landing and are provided with interlocks. These contacts are electrical protective devices.		
			These contacts are electrical protective devices.		
			Added:	Clarifies that fire service is not required for dumbwaiters.	
56	7.2.12.40	2016	7.2.12.40 Requirement 2.27 does not apply.		
	7.3 Hydra	ulic E	Dumbwaiters w/o Automatic Transfer Devices		
	·		Added:	Clarifies that fire service is not required for dumbwaiters. See 7.2.12.40 above.	
58	7.3.11.10	2016	7.3.11.10 Requirement 7.2.12.40 applies.		

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	7.4 Mater	ial Lif	ts w/o Automatic Transfer Devices		
258	7.4.2.2	2016	Former subpara. (c) deleted, and subsequent subparagraphs redesignated: 7.4.2.2 Type B Material Lifts shall be permitted to carry one operator and be provided with in-car mounted operating devices, subject to the following limitations: (a) Access to and usage of Type B Material Lifts is restricted to authorized personnel. (b) The rated speed is not to exceed 0.15 m/s (30 ft/min). (c) There is penetration of only one floor. (dc) Travel does not exceed 5-000 7.6 mm (200 in 25ft.). (ed) They are operated only by continuous-pressure control devices. (fe) They shall not be accessible to the general public. (gf) The upper limit of travel shall be (1) level with the top penetrated floor; or (2) level with the top landing where no floor is penetrated. (hg) They are permitted to serve one or more intermediate landings, provided that these landings have doors as required in 7.4.14.	Permits Type B material lifts to travel 7.6m and penetrate more than one (1) floor.	Design permission. Already permitted in Ontario by CAD.
260	7.4.6.1.4	2016	Revised: 7.4.6.1.4 The minimum vertical distance for the refuge space on top of the carenclosure shall be not less than 1 070 mm (42 in.) between the top of the carenclosure and the overhead structure or other obstruction when the car has reached its maximum upward movement. The top of car clearance shall comply with 2.4.7. If a 1 070 mm (42 in.) 1 100 mm (43 in.) vertical distance is not available when the car has reached its maximum upward movement, a stopping device shall be provided and shall be functional when the car is under the control of the top-of-car operating device and shall be so located in the hoistway as to maintain the minimum vertical distance of 1 070 mm (42 in.) 1 100 mm (43 in.).	Dimensions revised to reflect requirements in 2.4.7. Refuge space is no longer specified in the code when on top of the car.	Design Requirement.
261	7.4.13.2.5	2016	Revised	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
262	7.4.14	2016	(1) Requirement 7.4.14.6 revised: 7.4.14.6 For Type B Material Lifts, the interlock or mechanical lock and electric contact shall not be readily accessible from inside the platform.	Limit the Type B material lifts require interlocks - lock and contact no longer permitted	
262	7.4.14	2016	(2) Requirement 7.4.14.7 and Note added: 7.4.14.8 Requirement 2.12.3 applies only to Type A Material Lifts. Combination mechanical lock and contacts are not permitted for Type B Material Lifts. NOTE [7.4.14]: Type B Material Lifts must have full interlocks.	Lock and contacts will only be permitted for Type A Material Lifts.	

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	7.5 Electric Material Lifts w/o Automatic Transfer Devices								
262	7.5.1.1.1	2016	Revised: 7.5.1.1.1 Requirement 2.14.1 applies, except (a) for Type A Material Lifts, the enclosure width shall not exceed 1 220mm (48 in.). The height of the enclosure walls shall not exceed 2280 mm (90 in.). (b) for Type A Material Lifts, the width of the enclosure shall not exceed 1 220mm (48 in.) unless the height of the enclosure is 1525 mm (60 in.) or less. (bc) for Type B Material Lifts, the platform enclosure on non-access sides shall be 2030 mm (80in.) high, shall be permitted to be of openwork construction, and shall be in compliance with 7.4.3(b), (c), and (d).	Allow type A material lifts wider than 1200mm (48 in.) if the enclosure height is restricted to 1525mm (60".) if height is <= 1525mm (60") width restriction is removed.	[E] [I] if height is <= 1525mm (60") width restriction is removed.				
264	7.5.4.3	2016	Revised: 7.5.4.3 Requirement 2.17.8 applies, except that Type A safeties shall be permitted to be used regardless of the for rated speeds of 1.0 m/s (200 ft/min) or less. Safeties actuated by broken or slack suspension ropes are permitted only for material lifts having a rated speed of 0.5 1.0 m/s (100 200 ft/min) or less where the space below the material lift is not accessible.	Require safety type to match that of freight elevators but permit slack rope activation up to 1.0 m/s where there is no habitable space below the material lift.	Type 'A' safety now limited to 1.0 m/s				
266, 267	7.5.12.1.3	2016	New 7.5.12.1.3 added, and former 7.5.12.1.3 through 7.5.12.1.23 redesignated as 7.5.12.1.4 through 7.5.12.1.24, respectively: 7.5.12.1.3 Requirement 2.26.1.4.1(a)(1)(a) does not apply for car sizes where the platform is less than 1.4 m2 (15 ft2) in area.	Removes the requirement for a car top station where it is not possible to provide adequate refuge space.	No car top station if area less than 1.4m2 (15 ft2)				
266, 267	7.5.12.1.25	2016	Added: 7.5.12.1.25 Requirement 7.2.12.40 applies.	Clarifies that fire service is not required.					
266, 267	7.5.12.2.6	2016	Revised: 7.5.12.2.6 Requirement 2.26.2.5 does not apply. Each control station shall be provided with an emergency stop switch (switches) conforming to 2.26.2.5(a), (b), and (c). And it which shall cause the power to be removed from the driving machine when operated. Requirement 2.26.2.5(a) does not apply to the emergency stop switch located at each landing. When a constant-pressure type emergency stop switch at a landing is released the car shall not move, except for anticreep operation, until all operating devices in the car and at the landings have been returned to their non-actuated state. The car shall continue to remain stationary, except for levelling, until an operating device in the car or at the landing is actuated.	New design requirements for stop buttons at the landing. The control system is to latch the stop signal and not allow movement until all continuous pressure operating devices are release. Rationale: Provide permission to use a non-latching emergency stop switch at the landings for Type B Material Lifts. This is intended to prevent operator entrapment which can occur if someone activates a latching landing emergency stop switch while the device is in use. Requiring release of all operating devices at the landing and in the car before allowing operation of the car ensures that an operator in the car can regain control of the car by releasing and actuating an operating device.	[I] permission to use a non- latching emergency stop switch at the landings for Type B Material Lifts.				
268	7.5.12.2.34	2016	Added: 7.5.12.2.34 Requirement 7.2.12.40 applies.	Clarifies that fire service is not required.					

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	7.9 Elect	ric Ma	aterial lifts with Automatic Transfer Devices				
271, 272	7.9.2.4	2016	New 7.9.2.4 added, and former 7.9.2.4 through 7.9.2.20 redesignated as 7.9.2.5 through 7.9.2.21, respectively: 7.9.2.4 Transfer devices located in the car shall not be deliberately obscured. Transfer devices in the car that are obscured shall be marked. The marking shall consist of alternating 100 mm (4 in.) diagonal yellow and black stripes.	Transfer devices in the car must be visible so that people will not mistake a material lift with automatic transfer devices as being a passenger or freight elevator. Adding a requirement to mark obscured transfer devices ensures they remain visible			
271, 272	7.9.2.7	2016	Revised: 7.9.2.67 Requirement 2.16.4. Material lifts with transfer devices located in non-restrictive areas that are not obscured (see 7.11) shall carry materials only and shall not carry persons. Signs conforming to 2.16.5 and reading "NO PERSONS PERMITTED" or an equivalent warning shall be provided within the car enclosure and on the landing side of each entrance door.	Expand the restriction prohibiting persons to ride all material lifts with automatic transfer devices whether located in restricted areas or not. Material lifts with automatic transfer devices could result in injury to a passenger should the automatic device actuate while a person is in the car.			
271, 272	7.9.2.8	2016	Revised: Renumbers references due to new requirements above.				
	7.11 Hyd	raulic	Material lifts with Automatic Transfer Devices				
271, 272	Section 7.11	2016	Deleted entire section	Delete dual use system for new installations to improve safety. This ensures that persons using an elevator will not encounter automatic loading or unloading by an obscured transfer device. Such automatic operation could result in injury. Existing sections 7.9 and 7.10 would apply to devices with obscured transfer devices. Additional requirements have been added to section 7.9 to reduce the likelihood that a transfer device is obscured.			

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	PART 8 8.1 Securi	ity			
273, 274	8.1.2		In Note, new subparas. (q) and (r) added, and existing subparagraphs redesignated Group 1: Restricted (q) Requirement 4.1.7.3 (b) 4, machinery spaces and control spaces on the car top. (r) Requirement 4.1.7.6 (b) 5, machinery spaces and control spaces in the car	Added to NOTES, bring into Section 8 rack and pinion requirements	new items added to Security groups
273, 274	8.1.3	2016	In Note, new subparas. (g) and (h) added, and subsequent subparagraphs redesignated Group 2: Authorized Personnel (g) Requirement 4.1.7.2 (i), control rooms (h) Requirement 4.1.7.4 (b) 5 control spaces exterior to the hoistway	Added to NOTES, bring into Section 8 rack and pinion requirements	
273, 274	8.1.4	2016	In Note, subpara. (e) added Group 3: Emergency Operation (e) Requirement 8.4.10.1.3(d), earthquake hoistway scan.	Added to NOTES, bring into Section 8 "Earthquake Hoistway Scan" key switch requirements	
	8.2 Design	n Dat	a and Formulas		
277	8.2.2.4	2016	Revised Car Frame Plank (Buffer Engagement). In calculating the stress resulting from oilbuffer or elastomeric buffer engagement, one-half the sum of the weight of the car and its rated load shall be considered as being concentrated at each end of the plank with the buffer force applied at the middle. The buffer force shall be considered to be that required to produce gravity retardation with rated load in the car. The following formula shall be used to determine the stress resulting from buffer engagement: Where more than one oil buffer is used, the formula shall be modified to suit the location of the buffers. NOTE (see 8.2.2.4): Symbols used in the preceding formula are defined in 8.2.2.1.1.8.2.3 Impact on Buffer Supports	Rationale for 8.2.2.4 and 8.2.3.1: To add the buffer reaction and impact to buffer supports for elastomeric buffers. The performance of these buffers is similar to that of oil buffers with regards to buffer reaction and impact loading into supports.	
278	8.2.3.1	2016	Revised 8.2.3.1 Buffer Reaction and Impact for Oil Buffer and Elastomeric Buffer Supports. The following formulas give the buffer reaction and the impact on the car and counterweight oil-buffer supports resulting from buffer engagement [see 2.1.2.3(a) or 3.22.1.2.1]:		

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	8.3 Engin	eerin	g Tests, Type Tests, and Certification		
293	Section 8.3		Subparagraph (a)(7) added	 	
297, 298	8.3.3.4.2	2016	Subparagraphs (a) and (b) revised (a) AC rated locking devices shall have their electrical parts connected to an inductive a test circuit comprised of a choke (inductor) and resistor in series having (b) DC rated locking devices shall have their electrical parts connected to an inductive a test circuit comprised of a choke (inductor) and resistor in series	Rationale: To clarify the requirements for the test circuit used for the current interruption test in both AC and DC rated devices. Adding the composition of the test circuit clearly indicates the test conditions to be established. For DC rated devices removing the word "maximum" and replacing it with a tolerance will insure that neither too little nor too much inductance is used in the test.	
301	8.3.11.3		Revised 8.3.11.3 The steps or pallets shall be subjected to a load varying from 450 N (100 lbf) to 3 000 N(650 lbf) at a frequency of 10 Hz \pm 5 for 5 000 000 cycles. An undisturbed harmonic force flow shall be achieved.	applies to pallets as well as steps	
301	8.3.11.4		Revised 8.3.11.4 The load shall be applied normal to the tread surface to a plate 25 mm (1 in.) thick, 200mm (8 in.) wide, and 300 mm (12 in.) long, located at the center of the step or pallet, with the 300mm (12 in.) dimension in the direction of step or pallet travel.	applies to pallets as well as steps	
302, 303	8.3.13	2016	Added 8.3.13 Type Tests of Elastomeric Buffers 8.3.13.1 Application for Certification 8.3.13.2 Test Sample. 8.3.13.3 Testing Equipment. 8.3.13.4 Installation of Buffer and Preparations for Tests 8.3.13.5 Test Procedure. 8.3.13.6 Test Results 8.3.13.7 Certification	Rationale for Section 8.3. Proposed changes provide information regarding engineering tests, type tests and certification of elastomeric buffers.	Requirements for certification of elastomeric buffers.
302,	8.3.13.5	2016	Editorially revised	certification of elastomeric buffers.	
303 302, 303	8.3.13.7.3		Editorially revised		

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	8.4 Elevat		eismic Requirements		
304	Section 8.4	2016	(1) Subparagraphs (a)(1), (a)(3), and (b) revised		5-35-3
304	Section 8.4	2016	(2) Subparagraph (d) added(d) Section 8.4 shall not apply to the elevators required to conform to Sections5.2, 5.3, and 5.4.		[E][I] not required on LULA
305,	8.4.2.3.3	2016	Revised		
306 305, 306	8.4.2.3.4		Revised		
305, 306	8.4.3.1.5	2016	Added A means of detecting displacement of suspension members from their normal operating position, or the suspension members' retainer shall be provided at the machine. The detection means shall be of the manually reset type and shall conform to 2.26.4.3. Subsequent to the first stop of the car following the actuation of the detection means, the car shall remain inoperative until the detection means is manually reset.	Rationale: To prevent restarting of the car from the next stop of the car after the suspension displacement detection means has actuated due to the suspension means being replaced from the normal operating position, or the retainer being dislodged.	[OEM] Suspension member displacement - detection is required. [submitter][I]
305, 306	8.4.4.1	2016	Requirement 8.4.4.1.2 deleted	Removed the reference to the emergency exit switch. This is required in other sections of the Code as an EPD.	
310	Fig. 8.4.8.2-3	2016	"One intermediate tie bracket" callout arrow revised	Revise Figure 8.4.8.2-3 to have the "One intermediate tie bracket" point to the	
314	Fig. 8.4.8.2-7		"One intermediate tie bracket" callout arrow revised	middle line.	
315	Fig. 8.4.8.2-8		Under "(Imperial Units)," unit of measure for Wa 1 revised Wa 1= 1.35 (8,000) = 10 800 kg lb	corrected by errata	
316	8.4.8.6.1	2016	Subparagraph (h) deleted Design and Construction Rail Joints (h) The threaded portion of the bolts shall not occur in the shear plane of the guide-rail- fishplate assembly.	Rationale: The rationale for permitting threads to be in the shear plane for structural design: *Computing the shear stresses across threads in a shear plane is an acceptable structural design practice provided the root area is accounted for. *AISC 360 and other structural building codes permit fastener threads to be in the shear plane. *Fatigue limits will not be reached in the structural connection due to the low occurrence of earthquake events. Fatigue limits are inherent in the design requirements specified in section 2.	
317, 318	Table 8.4.8.7	2016	Nomenclature and Notes editorially revised		
319–3 24	8.4.9.1	2016	First sentence revised		
319–3 24	8.4.10	2016	Revised in its entirety		
329–3 33	8.4.14.1	2016	First line and Note (2) of subpara. (a), and Note (2) of subpara. (b) revised		
329–3 33	8.4.14.1.1	2010	Subparagraph (a) and Note (2) revised		
329–3 33	8.4.14.1.2	2016	Second paragraph revised		
			nd Moving Walk Seismic Requirements		
329–3 33	Section 8.5	2016	Revised in its entirety		
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	8.6 Mainte	enand	ce Repair Replacement and Tests		
334	8.6.1.2.1	2016	Subparagraph (f) deleted	(f) was moved to 8.6.1.2.2	None
334	8.6.1.2.2	2016	(1) Subparagraph (b)(5) added	(5) procedures for tests, periodic inspections, maintenance, replacements, adjustments, and repairs for traction-loss detection means, broken-suspension-member detection means, residual-strength detection means, and related circuits [See 2.20.8.1, 2.20.8.2, 2.20.8.3, 8.6.4.19.12, 8.6.11.11, 8.10.2.2.2(cc)(3)(-c)(-2), and 8.10.2.2(ss).]	None
334	8.6.1.2.2	2016	(2) New subparas. (c)(1) and (c)(3) added, and existing subparagraphs redesignated	Written Checkout Procedure added for elastomeric buffers and two way communication (c) Written checkout procedures (1) for elastomeric buffers (see 8.6.4.4.2) (2) to demonstrate E/E/PES function as intended (see 8.6.4.19.10) (3) for two-way communication means (see 8.6.4.19.15) (4) for elevator leveling speed with open doors (see 8.6.4.20.8) (5) for hydraulic elevator overspeed valve (see 8.6.5.16.5) (6) for escalator reversal stopping device (see 8.6.8.15.7) (7) for escalator handrail retarding force (see 8.6.8.15.13)	Inspector to verify that procedures are on site, Contractor to ensure procedures are on site
336, 337	8.6.1.7.5	2016	Added 8.6.1.7.5 Devices Not Covered in 8.6. When any device on which the safety of users is dependent is installed that is not specifically covered in 8.6 it shall be inspected and tested in accordance with the requirements of the manufacturer's or the altering company's procedures (see 8.6.1.6.1, 8.7.1.2). Documentation that contains the testing procedures of these devices shall remain with the equipment and be available in the on-site documentation (8.6.1.2.2). The removal or disabling of such devices shall be considered an alteration and shall comply with 8.7.1.2.		Inspector if present verify that documentation is on site Contractor to ensure if these devices exist that documentation remained on site.
336, 337	8.6.2.4	2016	Revised	Revised to say compliant to section 8.6.4.20.2(b) and not 8.11.2.3.2(b).	None
336, 337	8.6.3.2.1	2016	Note deleted	Note deleted	None
336, 337	8.6.3.4.3	2016	Revised	Revised to say compliant to section 8.6.4.20.2(b) and not 8.11.2.3.2(b).	None

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338	8.6.3.6	2016	Revised in its entirety 8.6.3.6 Replacement of Speed Governor 8.6.3.6.1 Where a speed governor is replaced, the replacement shall be considered an alteration and shall conform to 8.7.2.19 except when the replacement equipment has been authorized by the original equipment manufacturer as being equivalent to the original make and model or has been verified by a professional engineer as meeting the original design criteria of the elevator system. The governor rope shall be of the type and size specified by the governor manufacturer. The governor shall be tested in accordance with the applicable requirements specified in 8.10.2.3.2(f). Where a Type A Safety is used, the inertia application shall be tested as specified in 8.10.2.2.2 (ii)(2)(-a). 8.6.3.6.2 When a releasing carrier is provided, it shall conform to 2.17.15 except for replacements with equipment of the same make, model, and manufacturer as that being replaced, which shall conform to the Code under which the releasing carrier was originally installed.	Speed governor is replaced, replacement shall be considered an alteration except when the replacement equipment has been authorized by the original equipment manufacturer as being equivalent to the original make and model or has been verified by a professional engineer as meeting the original design criteria of the elevator system.	Engineering/Inspection/ Contractor parties work together when this takes place to ensure compliance
338	8.6.3.8	2016	following requirements shall apply: (a) The door closing force shall comply with the Code in effect at the time of the installation or alteration. (b) The kinetic energy shall comply with the Code in effect at the time of the installation or alteration. Where a data plate conforming to 2.13.4.2.4 is not	Kinetic energy of door reopening device, added if data plate was not required Maintenance requires that the kinetic energy, typically demonstrated through door closing times, must be in compliance with the code. The absence of door closing times on data tags would prevent this assessment. Appendix J3 was developed via a consolidation of information from several elevator manufacturers. Table J3, now displayed as Non- Mandatory Appendix XX provides guidance / best estimates of permissible door times which can be used to establish closing times in the absence of data tags B44 prior to 1981 did not require door edges to be rendered inoperative — as mechanical safety edges where typically not affected by smoke of hot gases. If electronic edges are applied to an older control system, for which the code was silent on rendering them ineffective, this replacement requirement needs to ensure the edges are rendered ineffective in order for the doors to close and FEO to recall the elevator, hence the requirement to meet 2.27.3.1.6(e).	Inspectors would confirm times per data plate if no data plate required confirm operation. Appendix Z may needed to be used during investigation. Contractors educate mechanics if no data plate mechanics may want to install times in log book for future usage so that it does not have to be looked up every time
338	8.6.3.9	2016	Revised	Revised to say compliant to section 8.6.4.20.2(b) and not 8.11.2.3.2(b).	None

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				New requirements of when replacing car doors what sections have to be complied with	Engineering/Inspection work through submission
339	8.6.3.15	2016	Added	8.6.3.15 Replacement of Car Doors and Gates. Where a car door or gate is replaced, the replacement shall conform as follows: (a) On Passenger Elevators(1) The requirements of 2.14.4 apply, except 2.14.4.10. The door closing force shall comply with the Code in effect at the time of the installation or alteration. (2) The requirements of 2.14.5 apply, except existing folding car doors shall be permitted to be replaced with folding car doors. (3) The following apply to the replacement of existing folding car doors: (-a) Requirement 8.6.3.15(a)(1). (-b) Requirement 8.6.3.15(a)(2), except 2.14.5.3, 2.14.5.6.2, 2.14.5.8, and 2.14.5.9 do not apply. (-c) The effort needed to prevent a folding car door from closing shall conform to 2.13.4.2.3. (-d) Folding car doors shall not be power opened to a distance exceeding one-third of the clear opening, and in no case shall the distance be more than 250 mm (10 in.). (-e) Handles of manually operated folding car doors nearest the car operating device on elevators operated from the car only shall be so located that the nearest handle is not more than 1 220 mm (48 in.) from the car operating device when the folding door is closed, and is between 1 220 mm (48 in.) and 380 mm (15 in.) above the car floor. (b) On Freight Elevators (1) The requirements of 2.14.4 apply, except 2.14.4.10. The door closing force shall comply with the Code in effect at the time of the installation or alteration. (2) The requirements of 2.14.6 apply.	permission to replace folding doors with new folding doors
340	8.6.4.4	2016	Revised to eliminate 8.6.4.4.2 and 8.6.4.4.3	8.6.4.4.2 is now 8.6.4.4.1(b) and 8.6.4.4.3 is 8.6.4.4.1(c)	None
340		2016	New Section Added for Elastomeric Buffers not highlighted as a 2016 change	8.6.4.4.2 Elastomeric Buffers. The elastomeric buffer shall be verified for any life-cycle conditions that may affect buffer performance, as specified by the manufacturer.	Inspector/Mechanic to check device for conditions that may cause replacement.

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341	8.6.4.13.2		8.6.4.13.2 Kinetic Energy and Force Limitation for Automatic Closing, Horizontal Sliding Car and Hoistway Doors or Gates. Where a power-operated horizontally sliding door is closed by momentary pressure or by automatic means, the closing kinetic energy and closing force shall be maintained to conform to 2.13.4 and 2.13.5. Where a data plate conforming to 2.13.4.2.4 is not required, see Nonmandatory Appendix Z.	Maintenance requires that the kinetic energy, typically demonstrated through door closing times, must be in compliance with the code. The absence of door closing times on data tags would prevent this assessment. Appendix J3 was developed via a consolidation of information from several elevator manufacturers. Table J3, now displayed as Non- Mandatory Appendix Z provides guidance / best estimates of permissible door times which can be used to establish closing times in the absence of data tags.	Inspectors would confirm times per data plate if no data plate required confirm operation. Appendix Z may needed to be used during investigation. Contractors educate mechanics if no data plate mechanics may want to install times in log book for future usage so that it does not have to be looked up every time		
342	8.6.4.19.2	2016	Subparagraph (a) revised	Editorial incorrect reference	None		
342	8.6.4.19.8	2016	Last sentence added Where a data plate conforming to 2.13.4.2.4 is not required, see Nonmandatory Appendix Z.	see note in 8.6.4.13.2 above	see note in 8.6.4.13.2 above		
343	8.6.4.19.11		Revised 8.6.4.19.11 Ascending Car Overspeed Protection and Unintended Car Movement Devices, and Emergency Brake (a) Examinations. All working parts of ascending car overspeed protection and unintended car movement devices shall be examined to determine that they are in satisfactory operating condition and that they conform to the applicable requirements of 2.19.1.2(a) and 2.19.2.2(a).	Rationale: 1. 8.6.4.19.11 requires that the test be performed at the lowest operating speed in the up direction. Therefore, it is not justified verifying the ascending overspeed protection setting on a Category 1 Test. Also, the overspeed detection means is typically the governor overspeed switch, whose setting is only required to be verified on a Category 5 Test. 2. Editorial corrections. 3. Clarifications.	Inspector to verify log book completion if required Contractor to update MCP procedures and train personne		

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343	8.6.4.19.12	2016	Subparagraph (b) revised	8.6.4.19.12 Traction-Loss Detection Means. Where provided, conformance with the traction-loss detection means specified in 2.20.8.1 shall be demonstrated by (a) causing relative motion between the drive sheave and the suspension means either by bottoming the car or counterweight [see 8.6.4.20.10(b)], or (b) an alternative test provided in the on-site documentation [see 8.6.1.2.2(b)(5)]	Inspector to ensure logbook is signed off if alternative test was completed documentation is on site Contractor to ensure to train staff to leave document on site
343	8.6.4.19.15	2016	Last sentence added 8.6.4.19.15 Emergency Communications. Emergency communications shall be tested to determine conformance with the applicable requirements (Item 1.6). A written checkout procedure shall be provided by the manufacturer of the communications means or the person or firm maintaining the equipment.	Rationale: to provide a checkout procedure for testing specific equipment used for the two-way communication means validating the automatic verification of line operability. There are numerous systems in the marketplace and the checkout procedure must be available and not developed by the inspectorate.	Inspector to verify that procedures are on site Contractor to ensure procedures are on site
343	8.6.4.19.17	2016	Added 8.6.4.19.17 Earthquake Operation. Earthquake Operation shall be tested to determine conformance with the applicable requirements. Deficiencies shall be corrected. A record of findings shall be available to the building owner and the authority having jurisdiction.	Provide means to test the earth quate operation	Inspector to verify log book completion if required Contractor to update logbook to include new requirement or mark N/A if not present
345	8.6.4.20.11	2016	Revised 8.6.4.20.11 Emergency Brake (a) Emergency Brake and Ascending Car Overspeed Protection. For passenger elevators and all freight elevators, the emergency brake shall be tested for compliance with 2.19.3.2. Verify the setting of the ascending car overspeed detection means. (b) Emergency Brake and Unintended Car Movement Protection. Test the unintended car movement protection and the emergency brake in the down direction with 125% of rated load at the landing above the bottom landing.	Following was added (b) Emergency Brake and Unintended Car Movement Protection. Test the unintended car movement protection and the emergency brake in the down direction with 125% of rated load at the landing above the bottom landing.	Inspector to ensure logbook is signed off if required Contractor to ensure to train staff on new requirements
346	8.6.4.22.1	2016	First sentence revised	Code used to say seismic switch verbiage change to say seismic device shall be maintained according to manufacturer	None
346	8.6.4.22.2	2016	First sentence revised	Code used to say the counterweight displacement detection device switch components, verbiage change to remove word switch	None
347	8.6.5.14.3	2016	Subparagraphs (d) and (e) revised	references corrected	None

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347	8.6.5.14.6	2016	Last sentence added 8.6.5.14.6 Power Operation of Door System. The closing forces and speed of power-operated hoistway door systems shall be tested to determine conformance with the applicable requirements (Item 1.8.2). For elevators required to comply with 2.13.4.2.4, the time in the door Code zone distance shall be measured and compared with the time specified on the data plate. Where a data plate conforming to 2.13.4.2.4 is not required, see Nonmandatory Appendix Z	General Maintenance requires that the kinetic energy, typically demonstrated through door closing times, must be in compliance with the code. Often the continued absence of door closing times prevents this assessment. Appendix Z was developed via a consolidation of information from several elevator manufacturers and provides guidance / best estimates of permissible door times which can be used to establish closing times in the absence of data tags. Contractors educate mechanics if no data plate mechanics may want to install times in log book for future usage so that it does not have to be looked up every time	Inspectors would confirm times per data plate if no data plate required confirm operation. Appendix Z may needed to be used during investigation.
347	8.6.5.14.8	2016	Added Earthquake operation shall be tested to determine conformance with the applicable requirements. Deficiencies shall be corrected. A record of findings shall be available to the building owner and the authority having jurisdiction.	Provide means to test the earth quate operation	Inspector to verify log book completion if required Contractor to update logbook to include new requirement or mark N/A if not present
347	8.6.5.16.1	2016	Last sentence revised	Updated with Item reference to clarify that overspeed testing is not required for hydraulic elevators on a Category 5 Test, which is not required for electric elevators. (Items 2.13, 2.29, and 5.12).	None
347	8.6.5.16.2	2016	Revised	Item 3.23 added for reference to A17.2	None
348	8.6.5.16.3	2016	First sentence revised	ASME added to A17.2	None
348	8.6.6.1	2016	Revised	Section 8.6.6.1.1 reference added	None
348	8.6.6.1.1	2016	First sentence revised 8.6.6.1 Rack-and-Pinion Elevators. The maintenance of rack-and-pinion elevators shall conform to 8.6.1 through 8.6.3 and the applicable requirements of Section 8.6. Where the car and/or counterweight safeties are sealed to prevent field adjustment and examination, or where the manufacturer has established replacement criteria, the safeties shall be returned to the manufacturer for replacement of components and calibration at the interval recommended by the manufacturer. The date of expiration is the data that indicates when the next manufacturer's maintenance-calibration is due. The date of expiration shall be shown on the safety device data plate required in 4.1.17.3(c). Field testing of rack and-pinion safeties in accordance with 8.6.6.1.1 shall be required prior to placing the elevator in service after the manufacturer replaces components or calibrates car or counterweight safeties.	Rack-and Pinion Elevator; Field testing is required to assure that the safeties work properly after they are overhauled and reinstalled and before the elevator is placed back in service.	Inspector to ensure data plate has expiration date on safety device, Contractor to ensure tag is present before inspection
349	8.6.7.9	2016	Revised	For mine elevators	N/A
	8.6.7.9.5		First sentence revised	For mine elevators	N/A

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352	8.6.8.15.1	2016	Revised 8.6.8.15.1 Machine Room and Truss Interior. The condition of and access to machine rooms, the truss interior, and all escalator components contained therein shall be examined and, if required, cleaned to perform the required inspections and tests of 8.6.8.15. The operation and adequacy of lighting and receptacles shall be checked (Items 8.1 and 10.1).	Rationale: Clarification of the requirements.	Inspector verify signed off in log book Contractor Update MCP Procedure, train personnel and Log book section title
353	8.6.8.15.23	2016	Revised	"Seismic switch" removed "seismic detection device" added	None
353	8.6.8.15.24	2016	Revised	"Seismic switch" removed "seismic detection device" added	None
355	8.6.11.6.1	2016	Subparagraph (a) revised	New reference section added	None
356, 357	8.6.11.10.3	2016	Subparagraph (e) revised	Code reference change 8.6.1.2(f) to 8.6.1.2.2(b)(5)	None
356, 357	8.6.11.11	2016	First sentence revised	Requirement was incorrect for A17.1-2013 and updated to correct referenced requirement number	None
356, 357	8.6.11.15	2016	New section added 8.6.11.15 Presence of Elevator Personnel When Motor Controllers Are Located in Public Spaces. Elevator personnel are to maintain a closed and locked motor controller door when they are not present at the controller cabinet (see 2.7.6.3.2).	To prevent unauthorized personnel from access to motor controller when elevator personnel are not present at the controller.	Contractor to update MCP Procedure and train personnel

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	8.7 Altera	tions			
356, 357	8.7.1.3	2016		8.10.1 5 deals with 'Devices not covered in 8.10'. Provide testing requirements for safety devices that are present, despite their non-required presence by the code.	OEM's to provide test procedures. Inspectors to test as per script.
358	8.7.2.2	2016		Rationale: To assure refuge space and other safety factors are maintained when a surface mounted sump pump is to be installed in an existing pit.	info: surface mounted sump pumps permitted on existing installations per provisions
359	8.7.2.10.1	2016	Subparagraphs (a), (b), and (c) revised	Updated to reflect relocation of 2.14.5.7 Restricted Opening of Car Doors	
360–3 62	8.7.2.11.1	2016	Revised		
360–3 62	8.7.2.11.3	2016		Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
360–3 62	8.7.2.14.1	2016	Revised except 2.14.5.7,	Updated to reflect relocation of 2.14.5.7 Restricted Opening of Car Doors	
360–3 62	8.7.2.14.2	2016	Subparagraph (i) revised except 2.14.5.7,		

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360–3 62	8.7.2.14.5	2016	overhead conditions, a stowable design, e.g. foldable, collapsible, etc. shall be permitted provided that; (a) when the railing is in the fully stowed position, the car shall be permitted to operate in any mode of operation except "top-of-car inspection operation", (b) when the railing is in the fully extended position, the car will only be permitted to operate in "top-of-car inspection operation" in accordance with 2.26.1.4.2, (c) when the railing is neither stowed nor in the fully extended position, the car shall not be permitted to operate, (d) switches used to monitor the stowed position shall have contacts that are positively opened mechanically when the railing is moved from its stowed position, (e) switches used to monitor the fully extended position shall have contacts that are positively opened mechanically when the railing is moved from its fully extended position, (f) the occurrence of a single ground, or the failure of a contactor, a relay, any single solid-state device, or a failure of a software system in the circuits incorporating these switches shall not permit operation other than as specified in 8.7.2.14.5.2(a), (b) or (c), (g) means shall be provided to prevent upward movement of the car beyond the point required to maintain top of car clearances when the railing is not in the fully	Previously a TSSA CAD requirement, this alteration scope is now codified. The addition of a railing to a car top is an alteration of the car top. Given the specific requirements related to railing as outlined in 2.14.1.7, care and diligence are required to ensure that the railing is achieving its intended safety purpose, that it is meeting strength and clearance requirements, that low clearance areas on the car top are marked accordingly, and to ensure that no new hazards are being created as a result of the railing addition. In existing installation where overheads may not permit a fixed 1070mm railing, a stowable design (example: foldable, collapsible etc) is permitted provided that specific requirements are met to ensure any potential hazards are mitigated. Other means to achieve compliance are always available via the means permitted in Section 1.2 of A17.1/B44.	eng'g and inspection enforcement as written
360–3 62	8.7.2.15.2	2016	Subparagraph (e) revised 8.7.2.15.2 Increase or Decrease in Deadweight of Car. (e) requirement 2.20, except as specified in 8.7.2.21.4.		
360–3 62	8.7.2.16.1	2016	Subparagraph (g) revised except as specified in 8.7.2.21.4.	Rationale: Highlight that an exemption to 2.20 exists in 8.7.2.21.	
360–3 62	8.7.2.16.4	2016	Subparagraphs (a) and (g) revised except as specified in 8.7.2.21.4.		
363–3 65	8.7.2.17.2	2016	Subparagraphs (b)(4), (b)(10), and (c)(2) revised except as specified in 8.7.2.21.4.		
363–3 65	8.7.2.19	2016	Last paragraph added 8.7.2.19 Speed Governors and Governor Ropes. Drum-operated safeties that require continuous tension in the governor rope to achieve full safety application shall be checked as specified in 8.6.4.20.1.	Rationale: Relocated from 8.6.3.6.	

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363–3 65	8.7.2.21.1	2016	changed, the new suspension members and their fastenings shall conform to 2.20 except as specified in 8.7.2.21.4. When existing sheaves are retained using	Rationale: Highlight that an exemption to 2.20 exists in 8.7.2.21, except if rope size is changed then all of 2.20 applies. Move a requirements from 8.7.2.21.4 to 8.7.2.21.1 which deals with changes to suspension members. Address requirements for change in suspension member fastenings.	
363–3 65	8.7.2.21.3	2016	Revised they shall conform to 2.20.10	Rationale: More precisely identify the requirements related to auxiliary suspension-member fastening.	
363–3 65	8.7.2.21.4	2016	means themselves. (a) If a traction-loss detection means is provided altered or added, it shall comply		
363–3 65	8.7.2.25.1	2016	Subparagraphs (a) and (c) revised 8.7.2.25.1 Alterations to Driving Machines and Sheaves (a) Where a driving machine is installed as part of an alteration, the installation shall conform to 2.7.2, 2.9, 2.10.1, 2.19, 2.20 except as specified in 8.7.2.21.4, 2.24, and 2.26.8 except as specified in 8.7.2.21.4. Requirement 2.7.2 applies to the extent existing installations permit. (c) Where an alteration consists of a change in the driving-machine sheave, the suspension ropes means and their connections shall conform to 2.20 except as specified in 8.7.2.21.4. The sheave shall conform to 2.24.2, 2.24.3, and 2.24.4.	Rationale: Highlight that an exemption to 2.20 exists in 8.7.2.21.	
366	8.7.2.27.5	2016	Subparagraph (f)(6) revised	Updated to reflect relocation of 2.14.5.7 Restricted Opening of Car Doors	

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367	8.7.2.28	2016	Subparagraph (a) revised 8.7.2.28 Emergency Operations and Signaling Devices (a) Where an alteration is made to car emergency signaling devices, the alteration shall conform to 2.27.1, except the visual and audible signal required by 2.27.1.1.6(b) shall be permitted to be located inside each car.	Rationale: The addition of an auto dialer telephone would fall under the scope of these alterations. Proposed change allows the addition or upgrade to an auto dialer phone with line monitoring – but permits the audible / visible signals to be provided in the car. In this manner, line monitoring and the related visual and audible trouble signals are retained, except that they are displayed within the elevator.	
367	8.7.3.2	2016	Revised 8.7.2.2.2 & 8.7.3.2.2 Where a surface mounted sump pump is added to an existing pit, the installation shall conform to the following: (a) The pump and any attachment thereof shall not be located in the refuge space or affect the clearances specified in 2.4.1. (b) The pump and any attachment thereof shall not restrict or infringe upon the pit access. (c) 2.2.2.4 (d) 2.2.2.5	Rationale: To assure refuge space and other safety factors are maintained when a surface mounted sump pump is to be installed in an existing pit.	info: surface mounted sump pumps permitted on existing installations per provisions
369	8.7.3.22.1	2016	Subparagraph (c) revised	Rationale: Refuge space is no longer specified in the code when on top of the car.	
369	8.7.3.22.2	2016	Subparagraph (c) revised	Correct a cross reference	
370	8.7.3.27	2016	First sentence revised		
371	8.7.3.31.6	2016	Subparagraph (f)(6) revised	Updated to reflect relocation of 2.14.5.7 Restricted Opening of Car Doors	
372	8.7.3.31.8	2016	8.7.3.31.8 Emergency Operation and Signaling Devices Subparagraph (a) revised 8.7.3.31.8 Emergency Operation and Signaling Devices (a) Where an alteration is made to car emergency signaling devices, the installation shall conform to 2.27.1, except the visual and audible signal required by 2.27.1.1.6(b) shall be permitted to be located inside each car.	Rationale: The addition of an auto dialer telephone would fall under the scope of these alterations. Proposed change allows the addition or upgrade to an auto dialer phone with line monitoring – but permits the audible / visible signals to be provided in the car. In this manner, line monitoring and the related visual and audible trouble signals are retained, except that they are displayed within the elevator.	
375	8.7.6.1.18	2016	8.7.6.1.18 Addition of Escalator Speed Variation Added 8.7.6.1.18 Addition of Escalator Speed Variation Where an escalator alteration introduces intentional speed variation after start- up, the addition of speed variation shall conform to 6.1.4.1.2.	RATIONALE: The 2010 code introduced requirements for speed variation after start-up on both Escalators and Moving Walks, to permit empty escalators and moving walks to slow down when riders are not present. If existing devices are altered to provide this feature, they should conform to the speed variation requirements for new equipment. This proposal addresses an	eng'g and inspection enforcement as written
376	8.7.6.2.17	2016	8.7.6.2.17 Addition of Moving Walk Speed Variation Added 8.7.6.2.17 Addition of Moving Walk Speed Variation Where a moving walk alteration introduces intentional speed variation after start- up, the addition of speed variation shall conform to 6.2.4.1.2.	alteration of this nature by referencing 6.1.4.1.2 and 6.2.4.1.2. Testing requirements in 8.10.4.2.2(j) are to verify the operating parameters of 6.1.4.1.2 and 6.2.4.1.2.	

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	8.8 Weldi	ng			
76	8.8.1		Subparagraph (b) revised: Qualification of Welders Where required elsewhere in this Code, welding of parts, except for tack welds later incorporated into finished welds, shall be undertaken (a) by welders qualified in accordance with the requirements of Section 4 of ANSI/AWS D1.1, whereby the welders shall be qualified by the manufacturer or contractor; a professional consulting engineer; or a recognized testing laboratory; or (b) by a fabricator qualified to the requirements of CSA W47.1 whichever is applicable (see Part 9). In jurisdictions enforcing NBCC, only the requirements of 8.8.1(b) apply.	Exclusion for jurisdictions enforcing NBCC to requirement 8.8.1 (a), There is no change in Ontario requirements	None
76	8.8.2	2016	Revised: Welding Steel Where required elsewhere in this Code, welding shall conform to one of the following whichever is applicable (see Part 9): (a) the design and procedure requirements of the applicable section of ANSI/AWS D1.1 or ANSI/ AWS D1.3, or (b) the design and procedure requirements of CSA W59 In jurisdictions enforcing NBCC, only the requirements of 8.8.2(b) apply.	Exclusion for jurisdictions enforcing NBCC to requirement 8.8.2 (a), There is no change in Ontario requirements	None
	8.9 CODE	DAT	A PLATE		
77	8.9.3	2016	8.9.3 Material and Construction Last paragraph added: Existing Code data plates that comply with the edition of the Code under which they were installed and have legible accurate information do not have to be changed to comply with these material and construction requirements.	Provision to not replace existing code data plates installed to previous code requirements provided it is still legible	field verifiable

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	8.10 Acce	ptano	ce Inspections and Tests		
377	8.10.2.2.1		Subparagraph (m) revised, and subpara. (y) added	Earthquake testing added	None
377	8.10.2.2.2		Subparagraphs (cc)(3)(-c)(-2) and (rr) revised	Traction limits and Alternative testing added	None
377	8.10.2.2.3	2016	(1) Subparagraphs (d), (d)(1), (d)(2), (s), (t), (dd), (ff)(3), and (ff)(4) revised	several sections revised tops of car clearance, clearances if window well etc.	None
377	8.10.2.2.3	2016	(2) Subparagraph (II) added	Guarding of equipment	Inspection
377	8.10.2.2.5	2016	Subparagraphs (c) and (f) revised	Buffer testing and travel cables verbiage revised	None
384	8.10.2.2.9	2016	Revised	Occupant Evacuation Operation added	Inspection
384	8.10.2.3.2	2016	Subparagraph (a) revised	Verbiage revised	None
385	8.10.3.2.1	2016	(1) Subparagraphs (m) and (q) revised	Emergency Exit and Emergency Power updated	Inspection if provided
385	8.10.3.2.1	2016	(2) Subparagraph (y) added	Earthquake testing added	None
386	8.10.3.2.2	2016	Subparagraphs (a), (b), (c), (f), (g), (i), (l), (m), (p) through (s), (cc), (dd), (ff), and (gg) revised	8.10 sections added to these requirements	None
387, 388	8.10.3.2.3	2016	(1) Subparagraphs (d), (d)(1), (d)(3), (d)(4), (e), (g), (j), (k), (m), (o), (ff)(3), and (ff)(4) revised	8.10 sections added to these requirements	None
387, 388	8.10.3.2.3		(2) Subparagraph (d)(5) deleted	Deleted	None
387, 388	8.10.3.2.3		(3) Subparagraph (kk) added	Earthquake testing added	None
387, 388 387,	8.10.3.2.4		(1) Subparagraphs (a), (b), and (c) revised	Verbiage revised	None
388	8.10.3.2.4	2016	(2) Subparagraph (o) added	Elevator parking device	Inspection
387, 388	8.10.3.2.5	2016	(1) Subparagraphs (d), (f), (i) through (l), and (o) revised	Verbiage revised	None
387, 388	8.10.3.2.5	2010	(2) Subparagraph (v) added	governor rope releasing carrier added	None
389–3 93	8.10.3.3.2		Subparagraph (a) revised	8.10 section to go to updated	None
389–3 93	8.10.4.1.1		(1) Subparagraphs (i)(1)(-h), (r), and (t)(6) revised	Verbiage revised	None
389–3 93	8.10.4.1.1		(2) Subparagraph (u) added	Testing of inspection control devices added	None
389–3 93	8.10.4.1.2		Subparagraphs (m) and (x) revised	Handrail sensor monitoring and seismic devices changed	None
389–3 93	8.10.4.2.2		Subparagraph (a) revised, and subpara. (j) added	Verbiage revised	None
394	8.10.5.16		Added	added for mine elevators	None
396,	8.11 Perio		Added		
397 396,	8.11.2.1.1		(1) Subparagraphs (d) and (m) revised		
397 396, 397	8.11.2.1.1	2016	(2) Subparagraph (y) added		
396, 397	8.11.2.1.2	2016	Subparagraph (nn) revised		
396, 397	8.11.2.1.3	2016	Subparagraphs (I), (dd), and (qq) revised		
399	8.11.3.1.6	2016	Revised		
401	8.11.5.16	2016	Added		

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	PART 9	2000	d Documents		
403–4	Section 9.1		Updated to reflect new and revised references		
09					
410,			nt Information Updated to reflect new and revised references		
411	į į				
	Nonmand	latory	Appendix		
415	Fig. B-1	2016	Cross-reference to 2.12.1 added	Add a reference to 2.12.1 for the unlocking zone so that code readers can locate the dimension requirements previously specified in the definition.	
430	Fig. G-1	2016	NONMANDATORY APPENDIX G TOP-OF-CAR CLEARANCE Figure G-1 Top-of-Car Clearance Requirements Revised	Added reference to 2.14.1.7.2, dimension to items in the hoistway horizontally from car top railing added.	
452	Table N-1	2016	Table N-1 Recommended Inspection and Test Intervals in "Months" Revised	First column removed, references updated, and references added for rack-and- pinion elevators, mine elevators, and wind turbine elevators.	
478	Appendix T	2016	Deleted	ASME A17.6 Elevator Suspension applies, note and appendix removed.	
479	Table U-1	2016	Table U-1 Design Requirements — Traction Elevator Suspension System "Best engineering practice (BEP)" revised to "sound engineering practice (SEP)"	In Factor of Safety reference change to SEP (Sound Engineering Practice).	
482	Appendix W	2016	Deleted	ASME A17.8 Wind Turbine Tower Elevators applies, appendix removed.	
483	Table X-1	2016	Table X-1 Acceptance Test for Electric Elevators Acceptance Test: Electric Elevators Item 28 Revised	Reference to counterweight added.	
485	Table X-3	2016	Table X-3 Acceptance Test for Escalators Acceptance Test: Escalators Item 21 Revised	Reference clause was corrected.	
490	Appendix Z	2016	NONMANDATORY APPENDIX Z MASS AND CLOSING TIME OF HORIZONTALLY SLIDING ELEVATOR DOORS Added	To assist where no data plate was provided (closing times for Horizontally sliding elevator doors).	

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X	ASME Foreword	2019	Revised	This twenty-second edition of the Code includes many revisions, including additional updates for door requirements in private residence elevators, occupant evacuation elevators, and clarifications of seismic requirements for elevators and escalators. In addition, some key revisions of note are the updating of emergency communication requirements for an elevator to ensure communication with any trapped passengers, including those that are hearing impaired, and additional	Forward Highlights: seismic updates emergency communications
xxiii	ASME Preface	2019	Revised	requirements modified for increased door protection on passenger elevators. The following is a complete list of editions and supplements to the Code that have been published	door protection zones
xxvii	CSA Preface				
	PART 1 G	Sener			
2	1.1.3 Section 1.3	2019	Revised Revised (1) Definitions of car door interlock, car door or gate electric contact, door or gate electric contact, elevator discharge level, hoistway door electric contact, hoistway door combination mechanical lock and closed detection means, hoistway door interlock, and mechanical lock		
3	Section 1.3		Added (2) Definitions of; door locked detection means,	an electrical protective device, the function of which is to prevent operation of the driving machine by the normal operating device unless the door is locked in the closed position.	new
3	Section 1.3	2019	Added dynamic braking;	use of the motor and active motor control to effect the controlled deceleration of a load.	new
3	Section 1.3	2019	Added executable software;	a set of machine-readable instructions native to a computing device that performs specific tasks.	new
3	Section 1.3	2019	Added Fire Service Access Elevator (FSAE);	an elevator equipped for use by emergency personnel that is required by some building codes in high-rise buildings and has special requirements, including identification, specified by those building codes.	new term for FireFighters elevator in non-NBCC jurisdictions
3	Section 1.3	2019	Added manual reset; private residence elevator;	a means, not accessible to the occupants or authorized personnel, requiring onsite intervention by elevator personnel prior to restarting the elevator.	new
3	Section 1.3		Added relocation, escalator or moving walk;	the movement of the escalator or moving walk from one wellway or pit to another wellway or pit, or the act of securing the escalator or moving walk to different bearing plates or supports.	new
3	Section 1.3	2019	Added restrictor, car door;	a device, the function of which is to restrict the opening of passenger elevator car door(s) when the car is outside the unlocking zone.	new, restrictors are now subject to engineering cycle tests
3	Section 1.3	2019	Added software-based parameters and/or variables;	values that set application-specific data.	new
3	Section 1.3	2019	Added unique software identifier (USI);	descriptor that allows distinguishing among versions of executable software.	new
3	Section 1.3	2019	Added valve, manually (manual) operated	a type of mechanical or electromechanical valve requiring an action to be taken by a person to change the state (opened or closed) of the valve.	new - used to help determine changes to motion control

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	PART 2 2.2 Pits				
21	2.2.2.5	2019	Revised 2.2.2.5 In elevators provided with Firefighters' Emergency Operation, a drain or sump pump shall be provided. The sump pump/drain shall be required to have the capacity to remove a minimum of 11.4 m3/h (3,000 gal/h) per elevator single hoistway or multiple hoistway	Rationale: The current requirement is excessive and unnecessary to increase the level of safety for firefighters using elevators during fire emergencies. The proposal to have 11.4 m3/h (3,000 gal/ h) per hoistway is adequate to maintain a level of safety for firefighters.	[architect] Requirement is now 3000gal/h for grouped hoistways
	2.7 Mach	inery	Spaces, Machine Rooms, Control Spaces, and Control Rooms		
29	2.7.3.3.2	2019	Means of Access Revised	Rationale: Clarification that vertical ladders are not permitted for spaces containing either controllers or and motor generators.	
30	2.7.5.1.2	2019	Working Areas in the Car or on the CarTop Subparagraph (e) Revised The means shall (e) have a sign in conformance with the requirements of ANSI Z535.2 or CAN/CSA-Z321, whichever is applicable, that shall be prominently posted in the work area stating: "WARNING! Engage ''. Where there is no maintenance or inspection required that could cause unexpected car motion and where it is not necessary to engage the means, the words "brake, emergency brake, or" can be omitted from the sign.	Rationale: means to prevent unexpected vertical car movement is not required to be provided where there is no maintenance or inspection that could cause unexpected car motion. However, 2.7.5.1.2(e) assumes that this means is always provided. The proposed additional wording provides flexibility in the wording of the sign when it is not necessary to provide or engage the means.	Means to be provided only when unexpected movement i possible. [OEM] permission if app. [E]= electrical print w/unexpected car movement device 2.26.2.34 [I] - field observable where provided
31	2.7.5.3	2019	Working Platforms		
32	2.7.5.3.1	2019	Reference to 8.6.11.9 corrected by errata Reference to 8.6.11.9 corrected by errata		
35	2.7.8	2019	Remote Machine Rooms, Control Rooms, and Control Spaces Revised 2.7.8 Remote Machine Rooms, Control Rooms and Control Spaces Rooms	To clarify that stop switches, duplex receptacles light switches and lights that have been understood to apply to remote machine rooms, control rooms also apply to remote control spaces. Rationale: Communication is equally important between the elevator car and remote control spaces where there is a means to move the car within the control space. Replace the "and or" with "or" as it adds no clarity to the requirement. Revise for clarity where all references are in the plural.	[I] = field verifiable requirements for Remote Spaces

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	2.8 Machi	inery	Spaces, Machine Rooms, Control Spaces, and Control Rooms		
36	2.8.2.4	2019	Electrical Equipment and Wiring Added 2.8.2.4 In jurisdictions enforcing the NBCC and in jurisdictions enforcing NFPA 72, the means for testing and maintenance of fire alarm initiating devices without having to enter the hoistway shall be permitted. When this means is provided, it shall comply with either (a) or (b): (a) The means provided for air sampling shall comply with 2.8.3.1.4. (b) The means provided by enclosing a fire alarm initiating device within a protective space shall comply with (1) through (7):	Rationale: Elevator hoistways can be extremely dangerous locations, and there are safety concerns when fire alarm technicians, who are not trained as elevator personnel, perform work installing, testing and maintaining fire alarm initiating devices located inside of the elevator hoistway. The small size of the access panels in combination with the protective guards (cages) will prevent injury to fire alarm technicians while performing work on fire alarm initiating devices located inside the elevator hoistway and will prevent injury to elevator personnel should they be in the hoistway while fire alarm technicians are accessing the FAIDs.	[I] - Allow FAID's in the H/W to be tested via access panels or allow air sampling methods in hoistways. [OEM]=if 2.8.2.4(b) identify locations on L/O dwgs
36	2.8.3.1.4	2019	Pipes, Ducts, Tanks, and Sprinklers Added 2.8.3.1.4 The means used for air sampling smoke detection systems shall be permitted to be installed in hoistways, machinery spaces, machine rooms, control spaces, and control rooms for the purpose of detecting smoke in accordance with 2.27.3.2 Phase I Emergency Recall Operation by Fire Alarm Initiating Devices and shall not encroach upon required clearances. Sensing elements penetrating the hoistway enclosure shall have a fire resistance rating conforming to the requirements of the building code.	Rationale: To add requirements for air sampling type FAIDs that will be permitted to be used on elevator installations. Installed in elevator spaces	
37	2.8.3.3.2	2019	Subparagraph (d) added	not applicable in NBCC jurisdictions	
37	2.8.3.3.4			not applicable in NBCC jurisdictions	
	2.11 Prote	ectior	of Hoistway Openings		
43	2.11.10.2	2019	Illumination at Landing Sills Revised Remove specific language related to "building corridor"	Rationale: To mitigate tripping and other hazards, the sills must be illuminated when the elevator is in service. The current edition does not address the situation where there is no building corridor.	
44	2.11.11.5.7	2019	Panels Revised 2.11.11.5.7 The assembled panel(s), including the means for hanging and guiding the panel(s), shall be capable of withstanding a force of 2 500 N (560 lbf) with no permanent displacement or deformation. This force shall be applied in the direction of the hoistway at right angles to at the center of a panel over an area of approximately 100 mm x 100 mm (4 in. x 4 in.) at the center of the panel (see also 2.11.11.8). For multi-panel entrances, the force shall be applied individually to each panel of the assembly.	Rationale: Remove any ambiguity created by the use of the terms "approximately" and "appreciable". Make it clear that each panel must meet the requirements, and that it is not required to apply the same force to all panels at the same time. Eliminate the implication that the code requires a test by removing the reference to test from the requirement thereby giving the option for structural analysis to demonstrate compliance.	

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	2.12 Hoist	way	Door Locking Devices and <mark>Closed Detection Means</mark> , and Hoistwa	y Access Switches	
48	Section 2.12		Title Revised HOISTWAY DOOR LOCKING DEVICES AND ELECTRIC CONTACTS CLOSED DETECTION MEANS, AND HOISTWAY ACCESS SWITCHES	Rationale: to use the new term closed detection means . Rationale: to rename door or gate electric contact to door or gate closed detection means in order to avoid confusion. And to clearly define the device as an electrical protective device in 2.26.2 which may have a traditional contact or be a SIL rated device according to 2.26.4.3.	fyi, new term introduced
49	2.12.1.5	7019	Revised 2.12.1.5 Freight elevator hoistway doors shall be equipped with interlocks conforming to 2.12.2 or hoistway door combination mechanical locks and closed detection means conforming to, and where permitted by, 2.12.3.	Rationale: to use the new term closed detection means. Lock and contract revised to lock and closed door detection means	new terminology
49	2.12.2.4	2019	Interlocks - General Design Requirements Revised in its entirety 2.12.2.4.1 To detect closed and locked position of the door(s), interlocks shall have: (a) contacts meeting the requirements of 2.26.4.3.1; or (b) SIL rated devices meeting the requirements of 2.26.4.3.2.	Rationale: to add new rule to clarify the type of devices that can be used to detect the locked position and to clearly define the closed and locked position as well as the open and unlocked position of the door.	[OEM][I] Door closed detection means are permitted to be contacts OR SIL devices.
50	2.12.3	2019	Hoistway Door Combination Mechanical Locks and Closed Detection Means Title Revised 2.12.3 Hoistway Door Combination Mechanical Locks and Electric Contacts Closed Detection Means	Rationale: to use the new term closed detection means.	
50	2.12.3.1	2019	Where Permitted Introductory sentence Revised		
51	2.12.3.4	2019	General Design Requirements Revised		
51	2.12.3.4.1		Revised		
51	2.12.3.4.2		Revised		
51	2.12.3.4.4	2019	Revised Location Revised		
51	2.12.4	2019	Listing/Certification of Door Locking Devices and Door or Gate Closed Detection Means Revised in its entirety 2.12.4 Listing/Certification Door Locking Devices and Door or Gate Closed Detection Means		[OEM] certification is required
52	2.12.7.2.1		Revised The switch shall be labeled "ACCESS" and shall be a three-position switch, labeled "UP," "OFF," and "DOWN" (in that order), with the "OFF" position as the center position. The switch shall be rotated clockwise to go from the "UP" to "OFF" to "DOWN" positions.	Rationale: To reinstate requirements from the 2013 edition of the code, which were inadvertently lost in the 2016 edition.	[OEM] design requirement. [I] Can be field verifiable.

age	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
	2.13 Powe	er Op	eration of Hoistway Doors And Car Doors		
57	2.13.3.4.10	2019	Subparagraph (b) Revised A sign complying with 8.13.2	Rationale: reference a new section SECTION 8.13 SIGNS, PLATES, AND TAGS	[I] FYI [OEM] New section 8.13. To provide a location in code fo reference to signage requirements
58	2.13.4.2.4	2019	Closing Mechanism - Data Plate Revised 2.13.4.2.4 Data Door Marking Plate. A marking plate complying with 8.13.3	Rationale: reference a new section 8.13. Door operator data plate now referred to as Door Marking Plate	[I] - fyi, Door operator data plate now referred to as Doo Marking Plate
58	2.13.5	2019	Reopening Device(s) for Power-Operated Horizontally Sliding Doors and Gates Revised in its entirety 2.13.5 Reopening Device(s) for Power-Operated Horizontally Sliding Doors and Gates Reopening device(s) for power-operated horizontally sliding doors or gates shall conform to the requirements of 2.13.5.1 through 2.13.5.6. Where the term "door(s)" is used the requirement shall apply to "gate(s)" as well. 2.13.5.1 Where Required and Function. 2.13.5.2 Rendering Inoperative 2.13.5.3 Detection of Approaching Objects. 2.13.5.4 Detection of Objects in the Door Path 2.13.5.5 Self-Monitoring of Detection Means 2.13.5.6 Maintenance and Onsite Testing of Detection Means	Rationale: The general language of 2.13.5 has been replaced by specific language that addresses all hazards. (a) Detection means of approaching objects, generally is three-dimensional (3D) protection means, and (b) detection means of objects in the door path generally is two-dimensional (2D) car door/gate mounted protection means.	[I] - New door protection via 3D approaching object detection. Approach door within define times and observe that the door responds / reopens as required. Note: many specified requirements are design requirements - not inspection requirements. [OEM] req'mt to provide

			What's New in ASME A17.1-20	13 to A17.1-2019 CSA B44-13 to CSA B44:19	
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58	2.13.5	2019	2.13.5.1 Where Required and Function. Where required by 2.13.4, (a) If an object has been detected in accordance with 2.13.5.3 < Detection of Approaching Objects > or 2.13.5.4 < Detection of Objects in the Door Path >	from 2.13.4: the reopening device shall be designed and installed to conform to 2.13.5.	[I]: door reopening devices are now required to detect Approaching objects (3D type device) & Objects in the door path (traditional)
58	2.13.5	2019	2.13.5.2 Rendering Inoperative	permitted when (A)(1) Kinetic Energy is reduced (both means can be turned off) (2) Approaching Object can turn off when (a) doors are 450mm (18") from close (Appx S-16) (b) after 20 s if not reset by the 2D detector (fyi-review code case) (3) 2D can turn off at 20mm from closed (B) detectors affected by smoke/flame, after 20s when PH 1 recall in effect TSSA will recognise Code Case 20-1017	Add CODE CASE information about revising 20s time out for (A)(2)(b) Code Case 20-1017 It is the opinion of the committee that it is acceptable to render the approaching object detection means inoperative after 5 s without door path detection means being triggered.
58	2.13.5	2019	2.13.5.3 Detection of Approaching Objects.	3D requirement is to detect a cylindrical target(s) approaching the entrance opening of the landing-side doors as required by 2.13.5.3.1 cylindrical target is 200 mm (8 in.) Dia., 1 000 mm (40in.) High. Flat black (absorb light) & gloss white (reflect light) Moving point of detection is: - between 225 mm (9 in.) and 500 mm (20 in.) in front of the door and - 225 mm (9 in.) ahead of the leading edge [see appendix S-16]	[I]- refer to appendix S-16 for the area of detection. Note that the object detection is test requirement for the OEM to validate - it is not an expectation to validate this in the field by inspectors

	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19				
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		2019	Green lines forms the two planes to define distance in front of doors where 3D Red line (2.13.5.4) is the 2D detector beam, Red line between the green planes is red line at some point on the red line - but not at all points on the red line. The blue triangle establishes distance for how far in front of the doors, and how far in front of the doors.	the moving line of object detection. The 3D detector must sense an object on the	
			Car (2.13.5.4)	450 mm (18 in.)	
		2019	(20 mm (20 in.) (213.5.3.1) (2.13.5.3.1)	225 mm (9 in.)	
58	2.13.5	2019	2.13.5.4 Detection of Objects in the Door Path	same as previous 2D requirements, but can be turned off 20mm from fully closed position The system shall be designed to be self-monitoring. After the door has reached	
58	2.13.5	2019	2.13.5.5 Self-Monitoring of Detection Means	its fully opened position and before door closing is initiated, the detection means shall be self-checked to verify the detection means is operational.	
58	2.13.5	2019	2.13.5.6 Maintenance and Onsite Testing of Detection Means The maintenance and method of on-site testing of the detection means shall be provided in the Maintenance Control Program on-site documentation (see 8.6.4.19.18).		[OEM] MCP Procedure 8.6.4.19.18 Door Reopening Device(s). The detection means of the door reopening device(s shall be examined and tested to verify proper operation (Item 1.1.1).

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	2.14 Car I	Enclo	sures, Car Doors and Gates, and Car Illumination		
61	2.14.1.5.1	2019	Top Emergency Exits Subparagraph (c) RevisedThe exit cover shall be openable from the top of the car, without the use of special tools, and shall be permitted to be openable from within the car by means of a keyed spring-return cylinder-type lock having not less than a five-pin or five disk combination. This key shall be Group 1 Security (see Section 8.1).	Rationale: Under certain conditions the equipment may need to be accessed from the car-top but the car is unable to move below the top landing, therefore access could only be through the top emergency exit from inside the car. This proposal allows the top emergency exit to be utilized from inside the car in conformance with the existing locking requirements in 8.4.4.1.	[OEM]Allowance for emergency exit to be openable from within the car via appropriate key and security grouping. REQ'D if Seismic.
63	2.14.2.2	2019	Openings Prohibited Subparagraph (g)(4) Revised (g) equipment access panels for maintenance and inspection of equipment shall (4) be provided with electric contacts door or gate closed detection means that conform to	Rationale: Include new wording for closed detection means	
63	2.14.2.3.3	2019	Ventilation Subparagraph (b) and Note Revised	Rationale: Revise text to be consistent with the new definition for auxiliary power supply and emergency or standby power.	
		2019	Car Door and Gate Closed Detection Means and Car Door Interlocks (1) Title Revised 2.14.4.2 Car Door and Gate Closed Detection Means and Car Door Interlocks	Rationale: Include new wording for closed detection means and to be specific about car doors.	
			(2) Paragraph 2.14.4.2.1 Revised (3) Paragraph 2.14.4.2.3 Revised	Allow requirements for the detection means that	[E][I] - Door or gate closed
64	2.14.4.2	2019	(4) Paragraphs 2.14.4.2.4 and 2.14.4.2.5 added and following paragraphs redesignated	a) use contacts to detect the closed position, or b) using SIL rated devices to detect the closed position	detection means are permitted to be SIL devices.
			2.14.4.2.5 Car door and gate closed detection means using SIL rated devices to detect the closed position of the car door or gate shall (5) Paragraph 2.14.4.2.6 (formerly 2.14.4.2.4) Revised		
			(6) Paragraph 2.14.4.2.7 (formerly 2.14.4.2.5) Revised		
66	2.14.4.11	2019	Closed Position of Car Doors or Gates Subparagraphs (a) and (c) Revised	Change the dimension when doors are considered closed, from 10mm between leading edges to 30mm. No increased risk as human forearm will not fit through 30mm. Since passengers will be unable to defeat the lock at 30 mm of openability,	[E] [I] - Dimension for 'closed' door is changed from 10mm to 30mm. Allow motion as interlocking mechanisms open or close.
67	2.14.5.7	2019	Restricted Opening of Car Doors Revised	Rationale: To clarify that the reference to 2.14.5.7 applies to car door restrictors, not car door interlocks.	

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67	2.14.5.7.5	2019	Revised 2.14.5.7.5 Strength. The means to restrict door opening shall comply with 2.14.5.7.1 when subjected to the following static forces: (a) a force of 1 000 N (225 lbf) 135 N (30 lbf) applied in the opening direction of the door and at a location anywhere along the leading edge of the door. (b) 1 000 N (225 lbf) force applied over a period of 300 s with the force increasing incrementally, applied in the opening direction of the door and at a location as near to the restricting means as possible, but not to exceed 300 mm (12 in.).	Rationale: Require similar forces for means used to restrict car doors as those required for door interlocks in 8.3.3.4.8. It was considered necessary to have the restricting device provide equivalent protection to an interlock. However, this failed to consider that when this force is exerted at the bottom of the door panels, particularly tall doors (8 - 9 ft.), the door panels will pivot, allowing a gap greater than the required 4 in. The new requirement should have been the same as the existing requirements for not only interlocks in 8.3.3.4.8, but also hoistway landing doors.	[OEM] Door restrictors to meet strength requirements similar to interlocks
67	2.14.5.7.6	2019	Added 2.14.5.7.6 Each type and make of car door restrictor shall be tested as follows: (a) Each type and make of car door restrictor shall conform to the engineering tests specified in 8.3.14. (b) The test shall be performed at either the manufacturer's facility or at a testing laboratory.	Rationale: It has been reported that some restrictors malfunction and do not lock properly. Adding requirements for engineering tests and a static test of car door restrictors with moving parts is similar to applicable requirements for car and hoistway door interlocks and will increase their robustness and reliability. see 8.3.14 Engineering Tests of Car Door Restrictors	[OEM] Add factory test requirements for car door restrictors to ensure reliability. 960K cycles
69	2.14.7.1.3	2019	Illumination and Outlets Required Subparagraph (g) Revised change device to devices		

				3 to A17.1-2019 CSA B44-13 to CSA B44:19	•
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	2.16 Capa	acity a	and Loading		
75	2.16.3.1	2019	Plates Required and Locations Revised	Rationale: Reference data plate, marking plate requirements that moved to 8.13.1	[OEM] [I] A new section has been created to group signs, plate and tag requirements, rather than each section of code explain what the sign should look like. SECTION 8.13 SIGNS, PLATES, AND TAGS
76	2.16.3.2.2		Information Required on Plates Subparagraph (f) added 2.16.3.2.2 Data plates shall indicate (f) the percent counterweight overbalance range (see 2.24.2.3.5)	Add a requirement to provide a data plate to indicate the designed percent counterweight overbalance range that is used to satisfy the requirements of 2.24.2.3.	[OEM] [E] [I] important change to Data Plate New requirement to display % cwt overbalance
76	2.16.3.3		Material and Marking of Permanent Plates Revised in its entirety 2.16.3.3 Material and Marking of Permanent Plates. Plates shall comply with 8.13.1.	Rationale: Reference marking plate requirements that moved to 8.13.1	marking plate requirements moved to 8.13.1
76	2.16.5.1		Signs Required in Freight Elevator Cars - Signs Required Revised Signs Required. Signs complying with 8.13.2, in addition to the capacity and data plates required by 2.16.3.1,	Rationale: Sign requirements that moved to 8.13.	
76	2.16.5.2	2019	Material and Marking of Signs Revised Signs shall conform to 8.13.2, and the letters shall be not less than 13 mm (0.5 in.) high.		
77	2.16.7.5		Carrying of One-Piece Loads Exceeding the Rated Load Revised A special capacity plate complying with 8.13.1 shall be provided inside the elevator car	Rationale: Reference capacity plate requirements that moved to 8.13.1	

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	2.17 Car a	nd C	ounterweight Safeties		
79	Table 2.17.3		Function and Stopping Distance of Safeties Title Revised Table 2.17.3 Maximum and Minimum Stopping Distances for Type B Car Safeties with Rated Load at Maximum Car Governor Tripping speed and Type B Counterweight Safeties	Rationale: for change title of table 2.17.3: The counterweight governor is allowed to trip up to 10 percent higher than that car governor. Therefore this table is not correct for counterweight safeties.	[E][I] - Table 2.17.3 should not be referenced when assessing COUNTERWEIGHT Safety stopping distance, therefore title was revised
81	2.17.14	2019	Marking Plates for Safeties Introductory sentence Revised 2.17.14 Marking Plates for Safeties A marking plate complying with 8.13.3	Rationale: Reference marking plate requirements that moved to 8.13.3	marking plate requirements moved to 8.13.1
81	2.17.16		Rail Lubricants and Lubrication Plate Second paragraph Revised 2.17.16 Rail Lubricants and Lubrication Plate		
	2.18 Spee	d Go	vernors		
83	2.18.5.3		Paragraph following (h) Revised	Rationale: Reference tag / marking plate requirements that moved to 8.13.3	
85	2.18.9		Introductory sentence Revised		
	2.19 Asce	ndın	g Car Overspeed and Unintended Car Movement Protection		
85	2.19.2.1	2019	Unintended Car Movement Protection - Purpose Introductory sentence and subpara. (a) Revised (a) electric driving-machine motor, brake, coupling, gear-shaft, or gearing	Clarify UCM required to address gear shaft failure.	clarification [OEM]
86	2.19.3.2	2019	Subparagraphs (a)(5), (i)(1), (i)(2), and (k) Revised (5) brake drum or braking surface of the driving-machine brake, provided that one or more of the following are met: (-a) the driving-machine brake surface is integral (cast or welded) with the driving machine sheave. (-b) the driving-machine brake surface is directly attached to the driving machine sheave. (-c) the driving-machine brake acts directly on the driving machine sheave or sheave shaft and is fully constrained mechanically in the direction of application of the braking torque such that the braking torque is transmitted to the driving sheave.		[OEM] design requirement / permission
87	2.19.3.3	2019	Marking Plate Requirements Revised	Rationale: Reference marking plate requirements that moved to 8.13.3	[OEM]

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	2.20 Susp	ensi	on Means and Their Connections		
87	2.20.2.1	2019	On Crosshead Data Plate Introductory sentence Revised	Rationale: Reference cross head data plate requirements that moved to 8.13.3	[OEM] [E] [I] - awareness that requirements for signs/ tags / plates moved to 8.13
87	2.20.2.2.1	2019	Data Tag at Suspension Means Fastening Introductory sentence and subpara. (d) Revised		
87 89	2.20.2.2.2	2019	Introductory sentence Revised Protection Against Traction Loss Subparagraph (d)(2) Revised	Rationale: correct a cross reference	
95	2.20.10.9	2019	Auxiliary Rope Fastening Devices Revised	Rationale: Reference tag requirements that moved to 8.13.3	
	2.22 Buffe	ers ar	nd Bumpers		
97	2.22.3.1	2019	Stroke Revised	Rationale: add a reference for clarify	
98	2.22.3.3	2019	Revised Load Ratings of Oil Buffers	Rationale: Reference marking plate requirements that moved to 8.13.3 Rationale: add a reference for clarify	
99	2.22.4.10	2019	Revised		
100	2.22.4.11	2019	Buffer Data Plate Revised	Rationale: Reference data plate requirements that moved to 8.13.1	
100	2.22.5.1	2019	Retardation Subparagraph (c) deleted (c) a maximum retardation in excess of 58.86 m/s2 (193.2 ft/s2) as measured- using a 100 Hz low-pass filter	Rationale: remove a requirement that is excessive for buffers	
	2.24 Drivi	ng Ma	achines and Sheaves		
110	2.24.2.3.5	2019	Percent Counterweight Overbalance Data Added 2.24.2.3.5 Percent Counterweight Overbalance Data Plate. The designed maximum and minimum percent counterweight overbalance range, that is required to meet the traction requirements of 2.24.2.3.1, 2.24.2.3.2 or 2.24.2.3.3, shall be provided on a data plate. This data plate shall be integral with or adjacent to the data plate required in 2.16.3. Where this data plate is adjacent to the data plate required by 2.16.3, the material and markings shall conform to 2.16.3.3.	Rationale: Correct counterweight overbalance has an impact on safe elevator operation. Require that the designed overbalance range be provided. This information must be present at the time of acceptance. This information will also be useful to convey safe overbalance limits if the elevator weight is changed / altered at a future date.	[E] [I] [OEM] Important data information to ensure proper traction. This proposal also requires that this information is present at the time of acceptance. See 8.10.2.2.3 Top-of-car. [Submitter] [E] ideally provided with submission, but must be on the crosshead.
112	2.24.8.5	2019	Brake Information Plates Revised	Rationale: Reference marking plate / data plate requirements that moved to 8.13.1 & 3	[OEM]
112	2.24.9.2.1	2019	General Requirements - Indirect Driving Machines Reference Revised	Update a cross reference	

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	2.26 Oper	ating	Devices and Control Equipment				
118	2.26.1.5	2019	Inspection Operation With Open Door Circuits Last paragraph Revised	Rationale: To include SIL rated devices in the requirements.			
119	2.26.1.5.5	2019	Revised	Rationale: Include new wording for closed detection means.			
119	2.26.1.5.6	2019	Revised	Rationale: Include new wording for door locked detection means.	÷		
119	2.26.1.5.7		Revised	Rationale: To include SIL rated devices in the requirements.			
119	2.26.1.5.8	2019	Revised	Rationale: To include SIL rated devices in the requirements.			
120	2.26.1.7	2019	Executable Software Added 2.26.1.7 Executable Software 2.26.1.7.1 Executable software used in performing one or more of the functions listed below shall have a USI for each software version. Changes in executable software for any of the following functions shall require a new USI: (a) working areas in the pit (2.7.5.2) (b) hoistway access switches (2.12.7) (c) power operation of hoistway doors and car doors (Section 2.13) (d) protection against traction loss (2.20.8.1) (e) broken suspension member (2.20.8.2) (f) suspension-member residual strength (2.20.8.3) (g) normal terminal stopping devices (2.25.2) (h) emergency terminal stopping means (2.25.4) (i) operating devices and control equipment (Section 2.26) (j) emergency communications (2.27.1.1) (k) emergency or standby power system (2.27.2) (I) Firefighters' Emergency Operation: automatic elevators (2.27.3 to .6) (m) Occupant Evacuation Operation (2.27.11) (n) emergency operation and signal devices (8.4.10)	Rationale: To provide requirements for documenting for the installation software related to A17.1 safety functions in a similar manner as current code provides with field wiring diagrams (see proposed 8.6.1.2.2(a)). Rationale: To provide means for inspectors and mechanics to identify the installed software USI. USI = unique software identifier	[OEM] [I] A unique software identifier will be visible to convey the current software version.		
		2019	Executable Software Added 2.26.1.7.3 The Control system shall include a means to view the USI(s) on-site. Examples of viewing means include, but are not limited to, one or more of the following: (a) electronic viewing that is part of the elevator or group of elevators, (b) labeling of device, (c) labeling or tags on the control or assembly.		[OEM] [I] A unique software identifier will be visible to convey the current software version.		
121	2.26.2.14	2019	Hoistway Door Interlocks and Hoistway Door Closed Detection Means Revised	Rationale: to include the new wording for detection means.			
121	2.26.2.15	2019	Car Door and Gate Closed Detection Means Revised				

			What's New in ASME A17.1-201	3 to A17.1-2019 CSA B44-13 to CSA B44:19	
Page	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
122	2.26.2.36	2019	Working Platform Electrical Device Revised	Rationale: Editorial renumbering of the referenced requirements.	
122	2.26.2.37	2019	Retractable Stop Electrical Device Revised		
123	Table 2.26.4.3.2	2019	Eighteenth and nineteenth rows Revised	Rationale: to clarify the function of each of the two devices listed in 2.26.2.14.	
124	2.26.4.4	2019	Electrical Equipment and Wiring Second paragraph Revised Testing shall be performed at a minimum of two frequencies in each of the ranges specified for safety circuits in table 1 through table 7 of ISO 22200:2009. One frequency shall be within 5% of the low value of each range, the second frequency shall be within 5% of the top value of each range.	Rationale: Provide testing requirements at discrete frequencies throughout the ranges specified in ISO 22200:2009. The year is provided with the reference in section 9.	used for EMI certification
125	2.26.5	2019	System to Monitor and Prevent Automatic Operation of the Elevator With Faulty Door Circuits Revised in its entirety	Rationale: To include new wording for car door or gate closed detection means.	
126	2.26.9.3.1	2019	Protection Against Failures Revised	Rationale: Include new wording for closed detection means and to include car door interlocks in the requirement.	
127	2.26.11	2019	Car Platform to Hoistway Door Sills Vertical Distance Introductory sentence Revised	Add a reference code	
127	2.26.12	2019	Symbols Note Revised		

	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19					
Page	Req'mt # (see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes	
	2.27 Emer	rgenc	y Operating and Signaling Devices			
127	Section 2.27	2019	EMERGENCY OPERATION AND SIGNALING DEVICES Note Revised	Rationale: To provide a reference to the building code for additional requirements for FSAE and OEO.		
129	2.27.1.1	2019	Revised in its entirety			
129	2.27.1.1		2.27.1 Car Emergency Signaling Devices 2.27.1.1 Emergency Communications The two-way communications shall conform to 2.27.1.1.1 through 2.27.1.1.6.	Rationale: New requirements for emergency communications to include remote video and abilities to communicate with non-verbal or non-hearing passengers		
129	2.27.1.1.1	2019	2.27.1.1.1 A two-way communications means between the car and a location staffed by authorized personnel who can take appropriate action, shall be provided.	clarify staff as personnel who can take appropriate action		
129	2.27.1.1.2	2019	2.27.1.1.2 (a) Two-way communications shall be directed to a location(s) staffed by authorized personnel who can take appropriate action. (b) If the call is not acknowledged [2.27.1.1.3(c)] within 45 s, the call shall be automatically directed to an alternate on- or off-site location.	define the time before transfer to the next location	still 45s	
129	2.27.1.1.3	2019	The two-way communications means within the car shall comply with the following requirements: (a) In jurisdictions enforcing NBCC, Nonmandatory Appendix E of ASME A17.1/CSA B44, or in jurisdictions not enforcing NBCC, ICC/ANSI A117.1. (b) A push button to actuate the two-way communications means shall be provided in or adjacent to a car operating panel. The push button shall be visible and permanently identified with the "PHONE" phone symbol (see 2.26.12.1). The identification shall be on or adjacent to the "PHONE" phone push button. When the push button is actuated, the emergency two-way communications means shall initiate a call for help and establish two-way communications. The communications means shall be initiated when the push button is actuated.	2 way communication activated when the phone button is pushed	no change to initiation	
129	2.27.1.1.3	2019	(c) A visual indication on On the same panel as the "PHONE" phone push button, a message shall be displayed shall be provided, that is activated by authorized personnel, to acknowledge that two way communications link has been is established. The visual indication message shall be permitted to be extinguished where necessary to display a new message [see 2.27.1.1.3(d) and 2.27.1.1.3(e)] or when the two way communications link is are terminated.	communication has been established' message shall be permitted to be extinguished to display a new message	[OEM] ability to have a changeable message sign	
129	2.27.1.1.3		(d) On the same panel as the phone push button, messages shall be displayed which permit authorized personnel to communicate with and obtain responses from a trapped passenger(s) including a passenger(s) who cannot verbally communicate or cannot hear.	requirement to communicate with and obtain responses from passengers who cannot verbally communicate or cannot hear. Passenger needs to interact w/Authorized personnel - for example press buttons	requirement for non-verbal / deaf persons to interact with Auth. Personnel	
129	2.27.1.1.3	2019	(e) On the same panel as the phone push button a message shall be displayed, that is activated by authorized personnel, to indicate when help is on the way. The message shall continue to be displayed until a new message is displayed [see 2.27.1.1.4(c)] or the communication is terminated.	requirement to communicate with passengers who cannot verbally communicate or cannot hear.	requirement for non-verbal / deaf persons	
129	2.27.1.1.3	2019	(f) through (j) updates	primarily editorial type corrections		
				Φ ΜΕ Λ17.1 CSA B44 [2010]	15 / 27	

	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19						
Page	Req'mt #	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes		
129	2.27.1.1.3	2019	(k) A means to display video to observe passengers at any location on the car floor, to authorized personnel for entrapment assessment shall be provided.	requirement to provide a video connection between the car and the authorized person	requirement for Video		
129	2.27.1.1.4	2019	Where the elevator rise is 18 m (60 ft) or more (c) Once the two-way voice communications have has been established, the visual indication [see 2.27.1.1.3(c)] a message shall be displayed on the same panel as the phone push button, that is activated by emergency personnel, to indicate that help is on site within the car shall illuminate. The visual indication message shall be permitted to be extinguished where necessary to display a new message [see 2.27.1.1.4(e)] or when the two-way communications are is terminated.		high building requirement same as non high building		
129	2.27.1.1.4	2019	(e) On the same panel as the phone push button, messages shall be displayed which permit emergency personnel to communicate with and obtain responses from a trapped passenger including a passenger who cannot verbally communicate or cannot hear. (f) A means to display video to observe passengers at any location on the car floor, to emergency personnel for entrapment assessment shall be provided.		high building requirement same as non high building		
130	2.27.2.4.1	2019	Emergency or Standby Power System Revised	Change 'selection switches' to 'selection means'.			
131	2.27.2.4.2	2019		1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0			
131	2.27.2.4.5		Revised				
131	2.27.2.4.6		Revised				
132	2.27.3.1.2	2019	Phase I Emergency Recall Operation Revised	Rationale: Clarify Fire Recall switch labelling requirements.			
132	2.27.3.1.6		(1) Introductory paragraph and subparas. (a), (h), (j), (k), and (k)(1) Revised	update language			
		2019	(2) Note added after subpara. (n)(5)				
134	2.27.3.2.3	2019	Phase I Emergency Recall Operation by Fire Alarm Initiating Devices Subparagraph (a) Revised	change reference 'floor' to 'lobby'			
134	2.27.3.2.4	2019	Revised	update cross references			
134	2.27.3.2.5	2019	Revised	Rationale: Editorial revision where "FIRE RECALL" is changed to "fire recall"			
137	2.27.3.3.7	2019	Phase II Emergency In-Car Operation Revised				
138	2.27.3.5.1	2019	Revised				
138	2.27.4.1	2019	Firefighters' Emergency Operation: Nonautomatic Elevators - Phase I Emergency Recall Operation Revised				
139	2.27.4.2	2019	Subparagraph (c) Revised				
139	2.27.5.3		Firefighters' Emergency Operation: Automatic Elevators With Designated- Attendant Operation Revised				
139	2.27.6	2019	Firefighters' Emergency Operation or Occupant Evacuation Operation: Inspection Operation Revised				

			What's New in ASME A17.1-20	D13 to A17.1-2019 CSA B44-13 to CSA B44:19	
Page	Req'mt #	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes
139	2.27.7	2019	Firefighters' Emergency Operation: Operating Procedures (1) Paragraph 2.27.7.1 Revised		
		2019	(2) Paragraph 2.27.7.4 deleted	Moved to 2.27.10.2	
141	2.27.10	2019	Elevator(s) for Use by Firefighters Revised in its entirety 2.27.10.1 Fire Service Access Elevators 2.27.10.2 Firefighters' Elevator	Updated for relevance in non-NBCC jurisdictions Introduce a similar required for US and call those elevators FSAE	NBCC Fire Fighter's Elevator requirements where moved from 2.27.7.4 to 2.27.10.
141	2.27.11	2019	Occupant Evacuation Operation Revised in its entirety	Update requirements for OEO elevators	
142	Figure 2.27.9	2019	Elevator Corridor Call Station Pictograph Revised	update of In case of fire pictograph	
	2.28 Layo	ut Dr	awings		
145	2.28.1	2019	LAYOUT DRAWINGS - Information Required on Layout Drawings Subparagraph (k) added 2.28.1(k) locations of access panels and protective guards when provided in compliance with 2.8.2.4(b).	Rationale: The location of the access panels and protective guards affects the elevator installer, elevator personnel, the fire alarm system designer and fire alarm technicians. Indicating the location of these on the layout drawings ensures that the information required by all parties can be found in one place. This information is also useful to the AHJs who inspected both the elevator and the fire alarm system.	[E] - Layout drawings need to reflect this additional requirement [Submitter] Show access to inhoistway FAID's and protective guard 0.25" dia ball on L/O dwgs

			Change	CHANGE NOTES	
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	(see update)			green = summary highlight	
	PART 3				
	3.7 Machi	inery	Spaces, Machine Rooms, Control Spaces, and Control Rooms		
150	3.7.1	2019	Title added		
			3.7.1 Requirements		
	3.12 Hois	tway	Door Locking Devices, Electric Contacts, and Hoistway Access S		
			Title Revised	Rationale: to use the new term closed detection means.	
			HOISTWAY DOOR LOCKING DEVICES AND ELECTRIC		
151	Section 3.12	2019	CONTACTS CLOSED DETECTION MEANS, AND HOISTWAY ACCESS SWITCHES		
151	3.12.2	2019	Revised		
	3.19 Valv		ressure Piping, and Fittings		
		·	Revised in its entirety	Rationale:	Jack Side Pressure
			3.19.2.5 Jack Side Pressure Measurement Means-Pressure Gauge Fittings.	1. Revise language to be more performance based language.	
				2. Allow measurement of system pressure by a pressure sensing means with	pressure measurement means
157	3.19.2.5	2019	b) A pressure measurement means, accessible from outside the hoistway, only	associated pressure display. Providing access for system pressure readings	accessible from outside the
			by elevator personnel (see 8.1), shall be provided by one of the following	without having to connect a pressure gauge provides equivalent or better safety	<u>hoistway,</u>
			methods:	for elevator personnel when measuring system pressure.	
			Revised in its entirety	Rationale:	[I] When the hydraulic machin
			3.19.4.1.1 When the hydraulic machine is located outside the hoistway,	Rules re-written in light of the new definition for manually operated valve and	is located inside the hoistway,
				defined security levels for valves inside and outside the hoistway. The shutoff	shutoff valve accessible from
158	3.19.4.1	2019	3.19.4.1.2 When the hydraulic machine is located inside the hoistway, the	valve is not required in normal operation of the elevator.	outside the hoistway shall be
136	3.13.4.1	2019	operation of the shutoff valve shall be located so that it is accessible from		provided
			outside the hoistway, only by elevator personnel (see 8.1).		
			Revised	Rationale:	
450	2.40.4.4	2010	or a means to manually operate the valve	Revise language to be more performance based language. Allow manual lowering	
158	3.19.4.4	2019		either by direct or by access from outside the hoistway.	

			What's New in ASME A17.1-20	13 to A17.1-2019 CSA B44-13 to CSA B44:19	
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	3.26 Oper	ating	Devices and Control Equipment		
162	3.26.1	2019	Subparagraph (i) added		
163	3.26.4.2	2019	Subparagraphs (c) and (d) Revised		
164	3.26.8	2019	Revised	Same as changes recorded above for electric elevators (2.26.1.7.1)	
			Added 3.26.11 Executable Software 3.26.11.1 Executable software used in performing one or more of the functions listed below shall have a USI for each software version. Changes in executable software for any of the following functions shall require a new USI: (additional Hyd items) (a) 2.26.1.7.1 (a) through (c), (e), and (i) through (n) (b) Power operation of hoistway doors and car doors (3.13) (c) Electrical activation means (Plunger Gripper) (3.17.3.2.1).	Add additional safety functions for HYDRAULIC ELEVATOR (a) working areas in the pit (2.7.5.2) (b) hoistway access switches (2.12.7) (c) power operation of hoistway doors and car doors (Section 2.13) (d) protection against traction loss (2.20.8.1) (e) broken suspension member (2.20.8.2) (f) suspension member residual strength (2.20.8.3) (g) normal terminal stopping devices (2.25.2)	[I] fyi, Executable software USI for the functions listed in 3.26.11
165	3.26.11	2019	(d) Normal Terminal Stopping Device (3.25.1) (e) Terminal Speed-Reducing Device (3.25.2) (f) Phase Reversal and Failure Protection (3.26.5) (g) Control and Operating Circuits (3.26.6) (h) Recycling Operation for Multiple or Telescopic Plungers (3.26.7) (i) Pressure Switch (3.26.8) (j) Low Oil Protection (3.26.9) (k) Auxiliary Power Lowering Operation (3.26.10) (l) Emergency Operation and Signaling Devices (3.27)	(i) operating devices and control equipment (Section 2.26) (j) emergency communications (2.27.1.1) (k) emergency or standby power system (2.27.2) (l) Firefighters' Emergency Operation: automatic elevators (2.27.3 to .6) (m) Occupant Evacuation Operation (2.27.11) (n) emergency operation and signal devices (8.4.10)	

			What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19						
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	PART 4								
	4.2 Screw	Colu	ımn Elevators						
176	4.2.12	2019	Paragraphs deleted and designator reserved for future use						
	PART 5								
	5.2 Limite	d-Us	e/Limited-Application Elevators						
188	5.2.1.4.3	2019	Top-of-Car Clearances Revised	Update top of car clearance to either be - those used in elevator or					
188	5.2.1.4.4	2019	Alternative to Top-of-Car Clearances Revised	- follow specific permissions referenced in sections 5.2.1.4.4 & .5					
189	5.2.1.4.5	2019	Space on Top-of-Car Enclosure Revised						
190	5.2.1.16.2	2019	Capacity and Data Plates Subparagraph (b) Revised	Require capacity and data plates to be similar to those in electric elevators.					
	5.3 Privat	e Res	sidence Elevators						
193	5.3.1.3	2019	Revised in its entirety						
193	5.3.1.5		Revised						
194	5.3.1.6		Added and following paragraphs redesignated						
195	5.3.1.7		Formerly 5.3.1.6, title Revised						
195	5.3.1.7.3		Added						
195	5.3.1.8.1		Formerly 5.3.1.7.1, Revised	Part 5.3 not adopted in Ontario.					
196	5.3.1.9.1		Formerly 5.3.1.8.1, subpara. (f) added	1 1 3 1					
196	5.3.1.9.2	2019	Formerly 5.3.1.8.2, subpara. (a) Revised						
199	5.3.1.17.2		Formerly 5.3.1.16.2, subparas. (a)(8), (b)(1), (b)(3), (j)(2), and (j)(4) Revised						
	5.3.1.19.9								
	5.9 Mine I	=leva	tors						
221	Section 5.9	2019	Revised	Part 5.9 not adopted in Ontario					
	5.11 Wind	l Turk	oine Tower Elevators						
230	Section 5.11	2019	Revised Elevators used in wind turbine towers shall conform to ASME A17.8/CSA B44.8.	Update the reference to reflect the Bi-national standard	Refer to ASME A17.8/CSA B44.8. for wind turbine tower elevators				

	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19					
Page	Req'mt #	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes	
	PART 6 6.1 Escala	ators				
232	6.1.3.3.6	2019	Skirt Panels (1) Subparagraph (b) Revised (2) Subparagraph (d) added (d) Skirt Deflection Test and Marking/Labeling. Each skirt panel design shall be tested for deflection with load per 6.1.3.3.6(b) as described in 8.3.15. This panel shall be marked with the part number or identifying mark and be marked/labeled with the following: "Replacement shall meet OEM and A17.1/B44 Code requirements".	Rationale: Limiting skirt deflection is one of the important components in preventing entrapments between steps and skirt panels. Verification of the deflection requirements is required in 8.10.4.1.1(p)(3) but no methods are currently codified. Requirements were added for engineering test verification of skirt panel designs for deflection for new, altered, replaced and repaired skirt panels and to assist field verification for escalators and moving walks.	Escalator skirt panels to be tested and marked for future validation of replacement panels.	
235	6.1.3.9.1	2019	Rated Load Revised	Revisions are also made to applicable escalator and moving walk requirements to		
235	6.1.3.9.2	2019	Revised	correct and clarify that required factors of safety are minimum values and the		
236	6.1.3.9.3		Revised	loads from which the factors of safety are calculated are fixed values.		
236	6.1.3.10	2019	Design Factors of Safety Revised			
236	6.1.3.10.2	2019	Revised			
236	6.1.3.10.3	2019	Revised			
236	6.1.3.10.4	2019	Revised			
236	6.1.3.12	2019	Headroom Revised	Clarify the width of the headroom area in the safety zone.		
237	6.1.5.3.1	2019	Escalator Driving-Machine Brake Subparagraph (a) Revised	Rationale: Advances in electric motor control technology provides for improvement to braking/stopping performance of escalators.	[OEM] Permission to allow for controlled dynamic braking	
238	6.1.5.3.3	2019	Revised	Possible improvements from dynamic braking with variable frequency control of	methods to be detailed in the	
238	6.1.5.3.4	2019	Added	the motor could include constant and precisely controlled deceleration rates	submission and testing	
239	6.1.6.3.1	2019	Operating and Safety Devices Subparagraphs (a) and (c) Revised	regardless of load, optimizing the stopping process to include a jerk rate in addition to a deceleration rate, and enabling up direction stopping performance	methods	
239	6.1.6.3.3	2019	Subparagraph (a) Revised	equal to down direction stopping performance regardless of escalator load.		
240	6.1.6.3.6	2019	Revised	,, 5,		
240	6.1.6.3.7		Revised	Brake rules in the code prohibit these possible improvements and the code is		
240	6.1.6.3.9		Revised	therefore being revised.		
240	6.1.6.3.11		Revised			
240	6.1.6.3.12		Revised			
241	6.1.6.3.14		Revised			
241	6.1.6.3.16		Revised			
241	6.1.6.4		Revised			
241	6.1.6.5		Revised			
241	6.1.6.6		Revised	_		
241	6.1.6.10.4	2019	Control and Operating Circuits Subparagraph (c) Revised (c) The electrical protective devices required by 6.1.6.3 shall control the solid-state device and both contactors, or the dynamic braking (see 6.1.5.3.4) as permitted.	Rationale: In order to permit dynamic braking to bypass the normal methods to remove power from the motor and driving-machine brake for those electrical protective devices that are permitted to use dynamic braking. This is only permitted based on the stopping performance monitoring of dynamic braking, which will remove the bypass when dynamic braking fails.		

243 6.1.6.11 2019 device 6.1.6. delectrifunct. 243 6.1.6.13 2019 of an stop stop stop stop stop stop stop stop	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19					
243 6.1.6.11 2019 device 6.1.6. 6.1.6	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes			
243 6.1.6.13 2019 of an stop stop stop stop stop stop stop stop	Electrically Powered Safety Devices Revised 5.1.6.11 Electrically Powered Safety Devices. If the handrail speed monitoring device required by 6.1.6.4, the missing step or missing skirt device, required by 5.1.6.5, the stopping performance monitoring required by 6.1.5.3.4(d), or any electrical protective device required by 6.1.6.3, requires electrical power for its functioning	Rationale: Stopping performance monitoring is as critical as the handrail speed monitor or missing step in preventing the electrical protective devices that are permitted to use dynamic braking from being ineffective. stopping performance monitoring is added to the requirement				
6.2 2019 245 6.2.3.3.6 2019 Revis 248 6.2.3.10.1 2019 Revis 248 6.2.3.10.2 2019 Revis 248 6.2.3.10.3 2019 Revis 249 6.2.3.11 2019 Revis 250 6.2.5.3.1 2019 Subpa 250 6.2.5.3.1 2019 Subpa 250 6.2.6.3.1 2019 Subpa 252 6.2.6.3.1 2019 Revis 252 6.2.6.3.1 2019 Revis 252 6.2.6.3.2 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.8 2019 Revis 253 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.7 2019 Revis Subpa 254 6.2.6.10.4 2019 Revis 255 Subpa 256 C.2.6.7 2019 Revis 257 Subpa 258 Subpa 259 Subpa 259 Subpa 250 Subpa 250 Subpa 250 Subpa 251 Subpa 252 Subpa 253 Subpa 254 Subpa 255 Subpa 256 Subpa 257 Subpa 258 Subpa 259 Subpa 259 Subpa 259 Subpa 250 The state	Completion or Maintenance of a Circuit Revised 5.1.6.13 Completion or Maintenance of Circuit. The completion or maintenance of an electric circuit shall not be used to stop the escalator when the emergency stop switch is opened or when any of the electrical protective devices operate. These requirements do not apply to speed control switches (see 6.1.6.3.2, 5.1.6.3.8, and 6.1.6.4) or to dynamic braking (6.1.5.3.4).					
245 6.2.3.3.6 2019 Revis 248 6.2.3.10.1 2019 Revis 248 6.2.3.10.2 2019 Revis 248 6.2.3.10.3 2019 Revis 249 6.2.3.11 2019 Revis 250 6.2.5.3.1 2019 Subpartion 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpartion 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis	ks					
248 6.2.3.3.6 2019 248 6.2.3.10.1 2019 Revis 248 6.2.3.10.2 2019 Revis 249 6.2.3.11 2019 Revis 249 6.2.3.15 2019 Revis 250 6.2.5.3.1 2019 Subparticle 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subparticle 252 6.2.6.3.2 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis		Escalator changes are generally applicable to moving v	valks			
248 6.2.3.10.2 2019 Revis 248 6.2.3.10.3 2019 Revis 249 6.2.3.15 2019 Revis 250 6.2.5.3.1 2019 Subpart 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpart 252 6.2.6.3.1 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis	Revised	Same as see 6.1.3.3.6 for escalator				
248 6.2.3.10.3 2019 Revis 249 6.2.3.11 2019 Revis 250 6.2.5.3.1 2019 Subpart 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpart 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis	Revised	Revisions are also made to applicable escalator and moving walk requirements to				
249 6.2.3.11 2019 Revis 249 6.2.3.15 2019 Revis 250 6.2.5.3.1 2019 Subpart 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpart 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 253 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.7 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Subpart (c) Th state	Revised	correct and clarify that required factors of safety are minimum values and the				
249 6.2.3.15 2019 Revis 250 6.2.5.3.1 2019 Subpos 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpos 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis 254 6.2.6.10.4 2019 Revis	Revised	loads from which the factors of safety are calculated are fixed values.				
250 6.2.5.3.1 2019 Subpart 250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subpart 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Rev	Revised in its entirety					
250 6.2.5.3.3 2019 Adde 252 6.2.6.3.1 2019 Subparations of the control of the co		Clarify the width of the headroom area in the safety zone.				
252 6.2.6.3.1 2019 Subpart 252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Revis	Subparagraph (a) Revised	See above escalator 6.1.5.3 notes				
252 6.2.6.3.3 2019 Revis 252 6.2.6.3.6 2019 Revis 252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Subparts						
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252 6.2.6.3.8 2019 Revis 252 6.2.6.3.9 2019 Revis 253 6.2.6.3.10 2019 Revis 253 6.2.6.4 2019 Revis 253 6.2.6.5 2019 Revis 253 6.2.6.6 2019 Revis 253 6.2.6.7 2019 Revis 254 6.2.6.10.4 2019 Subparts						
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253 6.2.6.7 2019 Revis Subparent (c) The state		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Subpa 254 6.2.6.10.4 2019 state						
	Subparagraph (c) Revised c) The electrical protective devices required by 6.2.6.3 shall control the solid- state device and both contactors, or the dynamic braking (see 6.2.5.3.3) as permitted.	Rationale: In order to permit dynamic braking to bypass the normal methods to remove power from the motor and driving-machine brake for those electrical protective devices that are permitted to use dynamic braking. This is only permitted based on the stopping performance monitoring of dynamic braking, which will remove the bypass when dynamic braking fails.				
254 6.2.6.11 2019 Revis	Revised in its entirety	see escalator note 6.1.6.11				
255 6.2.6.13 2019 Revis		see escalator note 6.1.6.13				

			What's New in ASME A17.1-20	13 to A17.1-2019 CSA B44-13 to CSA B44:19	
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	PART 7				
257	Scope, Part 7	2019	Revised	Hand dumbwaiters have been removed from the code due to lack of safety requirements	Hand power dumbwaiters no longer permitted. Removed from the code.
	7.1 POWI	ER DU	JMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES		
257 259 259	Section 7.1 7.1.10 7.1.11	2019	Title and introductory paragraph Revised Revised Paragraphs 7.1.11.1.2, 7.1.11.2.2, 7.1.11.3.2, and 7.1.11.12.9 deleted	Rationale: Hand Dumbwaiters as currently permitted do not provide the equivalent minimum safety requirements of power Dumbwaiters and their requirements should be removed from the code.	
260	7.1.12	2019	Paragraph 7.1.12.2 deleted and designator reserved for future use		
	7.2 Electi	ic Du	umbwaiters without Automatic Transfer Devices		
262	Section 7.2	2019	(1) Title and introductory paragraph Revised (2) Paragraph 7.2.4.3 deleted and designator reserved for future use (3) Paragraphs 7.2.6.1.2 and 7.2.10.2 deleted	Rationale: Hand Dumbwaiters as currently permitted do not provide the equivalent minimum safety requirements of power Dumbwaiters and their requirements should be removed from the code.	
	7.4 Mater	ial Lif	its w/o Automatic Transfer Devices		
269 270 272	7.4.3 7.4.4 7.4.13.2	2019	Introductory paragraphs Revised Revised Paragraphs 7.4.13.2.4 through 7.4.13.2.11 redesignated as 7.4.13.2.3 through 7.4.13.2.10	Glass not permitted in hoistway enclosures Clarify language for Pits	
	7.5 Electi	ic Ma	terial Lifts w/o Automatic Transfer Devices		
274	7.5.1.1.7	2019	Revised in its entirety	Car top railing is required when a car top is provided.	
276	7.5.10	2019	Revised	Rationale: Allow the driving machine to be located above the platform when a car top is provided.	
	7.6 Hydra	ulic N	Material Lifts w/o Automatic Transfer Devices		
280	7.6.7	2019	Revised in its entirety	Clarify terminal stepping requirements for Type A and B material lifts	
280	7.6.8.1	2019	Revised	Clarify terminal stopping requirements for Type A and B material lifts	

			What's New in ASME A17.1-20	013 to A17.1-2019 CSA B44-13 to CSA B44:19	
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	PART 8				
	8.1 Secur				
	8.1.2	2019	(1)Subparagraph (p) of Note Revised	Correct a cross reference	
284	8.1.2		(2) Subparagraph (z) of Note added (z) Requirements 2.14.1.5.1(c) and 8.4.4.1, top emergency exit cover.	Added to NOTES Rationale: To add reference for Group 1 Security key for the top emergency exit cover,	
284	8.1.3	2019	Subparagraphs (n) and (o) of Note added (5.3 is Private Residence) (n) Requirement 5.3.1.6.2, controller cabinet door or panel. (o) Requirement 5.3.1.6.6, access doors and openings.	add reference to items for Private Residence Elevator; - add a reference to controller cabinet door or panel access, - add a reference to access door and openings	
	8.3 Engin	eerin	g Tests, Type Tests, and Certification		
304	Section 8.3	2019	(1) Subparagraph (a)(6) Revised (6) escalator machine brakes as required in 6.1.5.3 (see 8.3.1 and 8.3.6) and escalator dynamic braking systems (6.1.5.3.4), if utilized	Add language for type testing and certification requirements for dynamic braking systems	
304	Section 6.5		(2) Subparagraph (b)(7) added	add language for engineering tests for Escalator/Mwalk skirt panel design	
307	8.3.3.1	2019	Revised	Rationale: Include new wording for closed detection means and specify	
307	8.3.3.3.1		Revised in its entirety	requirements for tests if means are SIL	
308	8.3.3.3.2		Revised		
308	8.3.3.4		Revised		
308	8.3.3.4.2		Revised		
308	8.3.3.4.3		Revised		
309	8.3.3.4.6		Revised		
309	8.3.3.4.10		Revised		
309	8.3.3.4.11	2019	Revised		
310	8.3.6	2019	Title Revised 8.3.6 Escalator Brake and Braking System Type Tests	Add requirement for type tests related to dynamic braking	
310	8.3.6.1		Revised		
314	8.3.14	2019	Added 8.3.14 Engineering Tests of Car Door Restrictors	Add requirements for engineering tests of car door restrictors	fyi - restrictor testing is required
315	8.3.15	2019	Added 8.3.15 Skirt Deflection Test	Requirements were added for engineering test verification of skirt panel designs for deflection for new, altered, replaced and repaired skirt panels and to assist field verification for escalators and moving walks.	fyi - skirt panel testing is required
	8.4 Elevat	or Se	eismic Requirements		
315	Section 8.4	2019	Subparagraph (a)(3) Revised	add clarification on seismic application as defined in NBCC	
335	8.4.10.1.4		Subparagraph (c) Revised while the seismic detection counterweight displacement detection device is	Rationale: Requirement 8.4.10.1.4 deals with the counterweight displacement detection device actuation	
	Figure		actuated	update earthquake flow chart	
334	8.4.10.1.3		Revised	apatte curriquate now chart	
			nd Moving Walk Seismic Requirements		
342	Section 8.5	2019	Subparagraph (a)(3) Revised	add clarification on seismic application as defined in NBCC	

			What's New in ASME A17.1-201	3 to A17.1-2019 CSA B44-13 to CSA B44:19	
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	8.6 Maint	enan	ce Repair Replacement and Tests		
345	8.6.1.1.2	2019	Notes added	Rationale: Section 8.6 now includes the requirements for Periodic Tests. When these requirements were moved to 8.6 from 8.11, the use of references to A17.2 Items were maintained, but not explained in 8.6. This Note is to clarify the usage of the term.	Explanation
345	8.6.1.1.4	2019	Added 8.6.1.1.4 Safety devices required by ASME A17.1/CSA B44 in 2.26.2, Table 2.26.4.3.2, 6.1.6, 6.2.6 and 8.3 at the time of installation, or devices provided to meet the certification requirements of A17.7 at the time of installation, and/or devices required by A17.3 and installed as an alteration, shall be maintained.	It is a common occurrence for the latest Code to require safety devices and other items on new equipment that are not required by the Code adopted by the Authority Having Jurisdiction (AHJ). Manufacturers comply with the latest Code when manufacturing new equipment and provide all required safety devices. It has sometimes been unclear whether these safety devices were required to function and be tested during acceptance and periodic tests. In addition, the proper method of testing these devices is sometimes unknown or unclear. The addition of this requirement allows the Code to address these issues.	Clarify that these safety devices are to operative at time of inspection.
346	8.6.1.2.2	2019	Subparagraphs (e) and (f) added 8.6.1.2.2 On-Site Documentation (e) USI(s) of the executable software associated with the relevant functions in 2.26.1.7.1 and 3.26.11.1 (see also 2.26.1.7.3). (f) The documentation for the engineering test of skirt panels deflection for units installed or altered under A17.1-2019 and later editions (see 8.3.15.5).	Rationale: To provide requirements for documenting for the installation software related to A17.1 safety functions in a similar manner as current code provides with field wiring diagrams Rationale: Limiting skirt deflection is one of the important components in preventing entrapments between steps and skirt panels. A17.1 def'n. Maintenance procedure: an instruction or sequence of instructions for performing a specific task(s). 8.6.1.2.2 Contains requirements for; -Up to date wiring diagrams -Check out procedure for Leveling, overspeed valve, reversal stop switch -Unique maint procedure for splied under alternate arrangements -Unique maint procedures for equipment installed under A17.7 -Procedures for traction-loss detection, broken-suspension-member detection means, residual-strength detection means -Check out procedures for elastomeric buffers, E/E/PES function, two way communication, leveling speed with open doors, overspeed valve, esc reversal stop device, esc handrail retarding force -Procedure for evacuation, cleaning of transparent enclosures, executable software, engineering test of skirt panels altered installed after 2019 code and later editions.	Inspector to verify following documents are on site; Contractor ensure these are permanently kept on site

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				Rationale: To add the unique software identifier (USI) and test record in the repair and replacement record.	Inspector to verify that skirt panels are marked/labeled
			Subparagraphs (b)(2) and (d)(2) added	Esc/MW installed or altered under A17.1-2019 or later shall meet these requirements	Contractor ensure these are present prior to inspection
347	8.6.1.4.1	2019	Subparagraphs (b)(3) and (d)(2) added 8.6.1.4.1 On-Site Maintenance Records 8.6.1.4.1 (new (b)(3) (b)(3) Where applicable, the USI(s) (2.26.1.7.3) and the associated functions in 2.26.1.7.1 or 3.26.11.1 that are affected. (d) Permanent Record.	6.1.3.3.6 Skirt Panels (a) The height of the skirt above the tread nose line shall be at least 25 mm (1 in.) measured vertically (see Nonmandatory Appendix I, Figure I-4). (b) The skirt panel design and installation shall not permit deflection of more than	
347	5.6.1.4.1	2013	(2) For escalators and moving walks installed or altered under A17.1-2019/B44-19 or later editions, a permanent record of verification of conformance with 6.1.3.3.6 or 6.2.3.3.6, as applicable, for a skirt panel or skirt panel supporting components shall be kept with the On-Site Maintenance Records	1.6 mm (0.06 in.) under a force of 667 N (150 lbf). (c) The exposed surfaces of the skirt panels adjacent to the steps shall be smooth. (d) Skirt Deflection Test and Marking/Labeling. Each skirt panel design shall be tested for deflection with load per (b) as described in 8.3.15. Skirt panels shall be marked with the part number or identifying mark and marked/labeled with the following: "Replacement shall meet OEM and A17.1/B44 Code requirements."	
349	8.6.2.3	2019	Revised 8.6.2.3 Repair of Speed Governors. Where a repair is made to a speed governor that affects the tripping linkage or speed adjustment mechanism, the governor shall be checked in conformance with 8.6.4.19.2 and 8.6.4.20.2(a).	Rationale: To include the test required for pull-out and pull-through when doing a repair.	Inspector note if repair done test would be signed off in log book Contractor ensure test is completed if repair is done train personnel
			Rationale: If lubricants have been applied to governor ropes, the assumption is that it was intentional, thus it the governor ropes shall be replaced.	Inspector to order replacement if lubricated	
352	8.6.4.2.2	2019			Contractor train personnel not to lubricate governor ropes, replace if previously has been lubricated.
354	8.6.4.19.2	2019	Subparagraph (b)(1) Revised	Clarify that the switches like governor switch, safety switch, means to activate emergency brake may be temporarily rendered inoperative.	Contractors may have to update procedures.
355	8.6.4.19.8	2019	Revised	Correct a cross reference	None
356	8.6.4.19.18		Added 8.6.4.19.18 Door Reopening Device(s). The detection means of the door reopening device(s) shall be examined and tested to verify proper operation (Item 1.1.1).	Rationale: To ensure ongoing functionality and proper operation of the detection	Inspector verify section is sign off in logbook Contractor train personnel and

				3 to A17.1-2019 CSA B44-13 to CSA B44:19	:
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356	8.6.4.19.19	2019	Added 8.6.4.19.19 Sequence Operation of Power Door Systems (Item 4.7) Ensure that sequence operation, where provided, is functioning according to code requirements in Section 2.13.	Add Cat -1 test for electric elevators to be consistent with the Cat-1 test for hydraulic elevators.	Inspector verify section is sign off in logbook Contractor train personnel and add to MCP procedures
356	8.6.4.19.20	2019	Added 8.6.4.19.20 Testing of Alternative Arrangements and ASME A17.7/CSA B44.7–Conforming Equipment. As required by the manufacturer and/or an ASME A17.7/CSA B44.7 Code Compliance Document (CCD), tests shall be performed (a) on equipment applied under alternative arrangements [see 8.6.1.2.2(b)(3)] (b) on equipment specified in an ASME A17.7/CSA B44.7 CCD [see 8.6.1.2.2(b)(4)]	Rationale: To clarify that there may be additional unique testing procedures and/or unique tests not described in A17.2, but required by the manufacturer, for equipment applied under alternative arrangements and equipment specified in an ASME A17.7/CSA B44.7, Code Compliance Document (CCD). Such unique testing procedures and/or unique tests not described in A17.2 are currently required to be part of the MCP On-site Documentation per 8.6.1.2.2(b)(2), (3), and (4).	
356	8.6.4.20.1	2019	Subparagraphs (a) and (b)(2) Revised 8.6.4.20.1 Car and Counterweight Safeties. Type A, Type B, and Type C car and counterweight safeties shall be tested in accordance with (a) or, subject to approval by the authority having jurisdiction, with (b). (a) Rated Load and Rated Speed Test. Car safeties, except those operating on wood guide rails, and their governors, shall be tested with rated load in the car. Counterweight safety tests shall be made with no load in the car. The car speed at which the governor trips shall be determined by means of a handheld tachometer or other device designed to measure car speed, such as controllers, service tools, and accelerometers. The car safety mechanism switch shall not be rendered inoperative. The emergency brake required by 2.19.3 shall be disabled to prevent it from operating during this test. Since the counterweight safety does not have a safety mechanism switch, the circuit that would remove power from the driving-machine motor and brake must be opened as soon as the elevator stops to minimize slack rope and fallback of the car. The following operational conditions shall be checked (Item 2.29.2): (b)(2) The "Periodic Test Record" shall be completed and installed as required by 8.6.1.7.2.	for testing.	Inspector verify signed off in log book Contractor may have to update procedures

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359	8.6.4.23	2019	Added 8.6.4.23 Executable Software Verification. Where executable software for functions listed in 2.26.1.7.1 or 3.26.11.1 has changed as the result of repair or replacement, requiring a new USI, the related safety function(s) shall be tested on site for the applicable installation and logged in the repair and replacement record.	to the applicable Electric and Hydraulic Elevator affected	Inspector look at repair and replacement records Contractor train personnel to that this must be recorded in repair and replacement records as well as test may be required.	
	8.6.5.14.3	2019	(1) Subparagraph (g) Revised	Text revised to sync with A17.2 test	None	
360	8.6.5.14.3		(2) Subparagraph (j) added 8.6.5.14.3 Additional Tests. (j) Auxiliary Power Lowering Device. The auxiliary power lowering device, where provided, shall be tested with no load in the car for conformance with applicable requirements (3.26.10) (Item 2.44).	This Category 1 Test requirement will test the operational capability of this safety device on a periodic basis to ensure operational safety for the elevator passengers. 8.6.5.14.3 Additional Tests. The following tests shall also be performed: a) B) etc. (j) Auxiliary Power Lowering Device	Inspector verify log book if required Contractor ensure added to log book and complete, if not required marked N/A	
360	8.6.5.14.6	2019	Revised	Correct a cross reference	None	
360	8.6.5.14.9	2019	Added Testing of Alternative Arrangements	see 8.6.4.19.20 for electric elevators Rationale: To clarify that there may be additional unique testing procedures and/or unique tests not described in A17.2, but required by the manufacturer, for equipment applied under alternative arrangements and equipment specified in an ASME A17.7/CSA B44.7, Code Compliance Document (CCD). Such unique testing procedures and/or unique tests not described in A17.2 are currently required to be part of the MCP On-site Documentation per 8.6.1.2.2(b)(2), (3), and (4).	Inspector to ensure documents are on site Contractor to leave on site	
360	8.6.5.14.10	2019	Added 8.6.5.14.10 Functional Safety of SIL Rated Device(s). Verify that the SIL rated device(s) used to satisfy 2.26.4.3.2 and 2.26.9.3.2(b) is as identified on wiring diagrams (8.6.1.6.3) with part identification, SIL, and certification identification information. The person or firm installing the equipment shall provide a written checkout procedure and shall demonstrate that SIL rated devices, safety functions (see Table 2.26.4.3.2), and related circuits operate as intended.	Add for consistency with electric elevator requirement 8.6.4.19.10	Inspector to ensure written check out procedure is on site Contractor leave procedure on site	
361	8.6.5.16.4	2019	Revised 8.6.5.16.4 A plunger gripper The person or firm installing or maintaining the equipment shall provide a written procedure in the Onsite Documentation [see 8.6.1.2.2(b)(1)] and demonstrate that the plunger gripper shall function as required by 3.17.3.	Rationale: to add inspections procedures for plunger gripper.	Inspector to ensure written procedure is on site, sign off in log book if appropriate Contractor leave procedure on site	
361	8.6.6.1.1	2019	Revised	Update references that are only applicable for rack-and-pinion elevator	None	
363	8.6.7.9.6	2019	Added	Rationale: Establish retirement criteria for mine elevator compensating chains.	None	

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363	8.6.8	2019	Revised 8.6.8 Maintenance of Escalators and Periodic Testing of Escalators and Moving Walks	Update title to reflect periodic testing of both Esc and Mwalks	None				
364	8.6.8.3.3	2019	Revised	Correct a cross reference	None				
364	8.6.8.5	2019	Subparagraph (a) Revised 8.6.8.5 Escalator Skirt Panels and Skirt Obstruction Devices (a) Damaged skirt or dynamic skirt panels shall be replaced or repaired and the installation shall conform to 8.6.8.2 and 8.6.8.3.3. If the unit was installed or altered under ASME A17.1a-1982 or later editions, then verification that the replacement or repair conforms to 6.1.3.3.6 shall be documented in the on-site maintenance records [see 8.6.1.4.1(d)].	Provide verification if skirt panels are installed / altered	Inspector to verify that skirt panels are marked/labeled Contractor ensure these are present prior to inspection				
365	8.6.8.15	2019	Title Revised	Update title to reflect periodic testing of both Esc and Mwalks - CAT1	None				
365	8.6.8.15.4	2019	Revised in its entirety 8.6.8.15.4 Drive Machine and Brake. The drive machine and brakes shall be examined and tested, including test of the brake torque (Items 8.4 and 10.4). For escalators and moving walks utilizing dynamic braking: (a) removal of electrical power from the driving machine motor and brake for conditions where deceleration and/or stopping distance requirements are not met shall be tested. (b) the person or firm maintaining the equipment shall provide a written checkout procedure and demonstrate the system complies with the requirements of the Code.	Specify requirements when dynamic braking is provided.	Inspector verify check out procedure on site Contractor leave procedure on site train personnel				
367	8.6.8.15.25	2019	Added 8.6.8.15.25 Skirt Obstruction Devices	Rationale: Skirt obstruction devices should be tested during a Category 1 Test and not a Periodic Inspection.	Inspector verify log book if required Contractor ensure added to log book and complete, if not required marked N/A				
367	8.6.8.15.26	2019	Added 8.6.8.15.26 Testing of Alternative Arrangements and ASME A17.7/CSA B44.7–Conforming Equipment.	see 8.6.4.19.20 for electric elevators Rationale: To clarify that there may be additional unique testing procedures and/or unique tests not described in A17.2, but required by the manufacturer, for equipment applied under alternative arrangements and equipment specified in an ASME A17.7/CSA B44.7, Code Compliance Document (CCD). Such unique testing procedures and/or unique tests not described in A17.2 are currently required to be part of the MCP On-site Documentation per 8.6.1.2.2(b)(2), (3), and (4).	Inspector to ensure documents are on site Contractor to leave				
367	8.6.9	2019	Introductory paragraph Revised The periodic testing of moving walks shall conform to 8.6.8.15, where applicable.		None				

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368	8.6.9.14		Added 8.6.9.14 Skirt Panels Damaged skirt panels shall be replaced or repaired and	Add skirt panel requirements for moving walks	Inspector to verify if replaced in maintenance records check clearances Contractor to train personnel to record in maintenance records when complete		
368	8.6.10.1.1	2019	Revised	Correct reference for Maintenance and Testing of Dumbwaiters and Material Lifts	None		
368	8.6.11.1	2019	Revised	Provide a reference to the nonmandatory checklist for FEO Operation added to Appendix AA	none		
368	8.6.10.1.1	2019	Revised	Correct reference for Maintenance and Testing of Dumbwaiters and Material Lifts			
368	8.6.11.1	2019	Revised	Provide a reference to the nonmandatory checklist for FEO Operation added to Appendix AA			

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	8.7 Altera	tions			
371	8.7.1.4	2019	Revised	Editorially reworded for clarity	
372	8.7.1.10	2019	8.7.1.10 Executable Software Verification and Witness Test Added 8.7.1.10 Executable Software Verification and Witness Test. Where executable software for functions listed in 2.26.1.7.1 or 3.26.11.1 is changed as part of an alteration, the software changed shall have a new USI that shall be logged in On-	Rationale: To provide guidelines for on-site verification of executable software when these software changes relate to the alteration of an Electric or Hydraulic Elevator.	eng'g and inspection enforcement as written
			Site Documentation (8.6.1.2.2(e)).	Detionals: To add OFO Organics that was availabled in the available division	Altonotion
372	8.7.2.2	2019	Introductory paragraph added 8.7.2.2 Pits. For inspection and test requirements, see8.10.2.3.2(x).	Rationale: To add OEO Operation that was overlooked in the previous edition.	Alteration requirements are now supplemented with
372	8.7.2.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	Testing Requirements specified
372	8.7.2.4		Revised	Rationale: Adding Test Requirements for an Alteration.	in Section 8.10
372	8.7.2.5		Revised	Rationale: Adding Test Requirements for an Alteration.	
372	8.7.2.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
372	8.7.2.7	2019	Introductory paragraph added 8.7.2.7 Machinery Spaces, Machine Rooms, Control Spaces, and Control Rooms For inspection and test requirements, see 8.10.2.3.2(bb).	Rationale: Adding Test Requirements for an Alteration.	
373	8.7.2.8	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
373	8.7.2.10.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
373	8.7.2.10.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
373	8.7.2.10.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
373	8.7.2.10.4	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
374	8.7.2.11	2019	Introductory paragraph added 8.7.2.11 Hoistway Door Locking Devices, Access Switches, and Parking Devices. For inspection and test requirements, see 8.10.2.3.2(dd).	Rationale: Adding Test Requirements for an Alteration.	
374	8.7.2.11.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
374	8.7.2.12	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
374	8.7.2.13	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
374	8.7.2.14	2019	Introductory paragraph added 8.7.2.14 Car Enclosures, Car Doors and Gates, and Car Illumination. For inspection and test requirements, see 8.10.2.3.2(ff).	Rationale: Adding Test Requirements for an Alteration.	
375	8.7.2.14.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
375	8.7.2.15.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
375	8.7.2.15.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
376	8.7.2.16.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
376	8.7.2.16.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
376	8.7.2.16.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
376	8.7.2.16.4	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
376	8.7.2.17.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
377	8.7.2.17.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.	
377	8.7.2.18	2019	Introductory paragraph added 8.7.2.18 Car and Counterweight Safeties. For inspection and test requirements, see 8.10.2.3.2(e).	Rationale: Adding Test Requirements for an Alteration.	
378	8.7.2.19	2010	Revised	Rationale: Adding Test Requirements for an Alteration.	

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378	8.7.2.20	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
378	8.7.2.21	2019	Introductory paragraph added 8.7.2.21 Suspension Means and Their Connections For inspection and test requirements, see 8.10.2.3.2(hh).	Rationale: Adding Test Requirements for an Alteration.			
78	8.7.2.22	2019	Introductory paragraph added 8.7.2.22 Counterweights. For inspection and test requirements, see 8.10.2.3.2(ii).	Rationale: Adding Test Requirements for an Alteration.			
78	8.7.2.23	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
78	8.7.2.24	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
79	8.7.2.25.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
79	8.7.2.25.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
79	8.7.2.26	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
79	8.7.2.27.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
379	8.7.2.27.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
379	8.7.2.27.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
79	8.7.2.27.4	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
80	8.7.2.27.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
81	8.7.2.27.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
81	8.7.2.27.7	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
81	8.7.2.27.8	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
81	8.7.2.27.9	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.2.28	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.2.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.4	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.7	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
82	8.7.3.8	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.10	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.11	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.12	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.13.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.13.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.14	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.15.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
33	8.7.3.15.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
33	8.7.3.15.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
33	8.7.3.16	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
33	8.7.3.17	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
83	8.7.3.18	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
34	8.7.3.19	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
34	8.7.3.20	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
34	8.7.3.21	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
34	8.7.3.22.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
34	8.7.3.22.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			

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384	8.7.3.22.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
384	8.7.3.23.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
384	8.7.3.23.2	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
384	8.7.3.23.3	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
384	8.7.3.23.4	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
384	8.7.3.23.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.23.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.23.7	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.24	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.25.1	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.26		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.27		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.28		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.30		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.31.1		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.31.2		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.31.3		Revised	Rationale: Adding Test Requirements for an Alteration.			
385	8.7.3.31.4		Revised	Rationale: Adding Test Requirements for an Alteration.			
			Revised	Rationale: Adding Test Requirements for an Alteration.			
386	8.7.3.31.5				- <u>- </u>		
386	8.7.3.31.6		Revised	Rationale: Adding Test Requirements for an Alteration.			
387	8.7.3.31.7		Revised	Rationale: Adding Test Requirements for an Alteration.			
387	8.7.3.31.8		Revised	Rationale: Adding Test Requirements for an Alteration.			
388			Revised	Rationale: Adding Test Requirements for an Alteration.			
388			Revised	Rationale: Adding Test Requirements for an Alteration.			
388	8.7.3.31.11			Rationale: Adding Test Requirements for an Alteration.			
388	8.7.3.31.12	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
			8.7.3.31.13 Door Monitoring System	Rationale: Adding Test Requirements for an Alteration.	new alteration		
			Added	Rationale: To add Requirements for Alteration or Addition of Door Monitoring			
			8.7.3.31.13 Door Monitoring System. Where there is an alteration to or addition	Systems to Hydraulic Elevators.			
388	8.7.3.31.13	2019	of a system to monitor and prevent automatic operation of the elevator with				
			faulty door contact circuits on power-operated car doors that are mechanically				
			coupled with the landing doors while the car is in the landing zone, the alteration				
İ			shall conform to 2.26.5.				
			For inspection and test requirements, see 8.10.3.3.2(mm).				
			Revised in its entirety	Rationale:			
			8.7.5.7 Special Purpose Personnel Elevators. Where any alteration is made to a	Specify alteration requirements for SPPE elevators.			
389	8.7.5.7	2019	special purpose personnel elevator, the entire installation shall comply with-				
			Section 5.7 alteration shall comply with 8.7.1 and where applicable 8.7.5.7.1				
			through 8.7.5.7.28.				
			Introductory paragraph added	Rationale: Adding Test Requirements for an Alteration.			
205	07645	2042	8.7.6 Alterations to Escalators and Moving Walks				
395	8.7.6.1.5	2019	8.7.6.1.5 Construction Requirements				
			For Inspection and Test Requirements, see 8.10.4.2.2(a).				
395	8.7.6.1.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
395	8.7.6.1.7		Revised	Rationale: Adding Test Requirements for an Alteration.			
395	8.7.6.1.8		Revised	Rationale: Adding Test Requirements for an Alteration.			

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395	8.7.6.1.9	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
395	8.7.6.1.10		Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.11	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.12	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.13	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.14	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.15	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.16	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.17	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
95	8.7.6.1.18	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
395	8.7.6.1.19	2019	8.7.6.1.19 Skirt Panels Added 8.7.6.1.19 Skirt Panels. Any alteration of a skirt panel or skirt panel supporting components shall conform to 6.1.3.3.6(d) and the person or firm performing the alteration shall verify conformance in accordance with 8.3.15.	Rationale: Add alteration requirements for Escalator skirt panels. Adding Test Requirements for an Alteration.	eng'g and inspection enforcement as written		
96	8.7.6.2.5	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.6	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.7	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.8	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.9	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.10	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.11	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.12	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.13	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.14	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.15	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
96	8.7.6.2.16	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
97	8.7.6.2.17	2019	Revised	Rationale: Adding Test Requirements for an Alteration.			
97	8.7.6.2.18	2019	Added	Rationale: To add a requirement for alterations on Entrances and Egresses on Moving Walks consistent with Escalators.			
97	8.7.6.2.19	2019	Added	Rationale: Add alteration requirements for Moving Walk skirt panels. Adding Test Requirements for an Alteration.			

			What's New in ASME A17.1-201	3 to A17.1-2019 CSA B44-13 to CSA B44:19	
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	8.10 Acce	ptan	ce Inspections and Tests		
398	8.10.1.3	2019	Notes Revised	Rationale: To clarify revise the notes in 8.10.1.3 and 8.11.1.2 so that they do not conflict with the A17.2 Introduction, which indicates that A17.2 covers recommended procedures:	
399	8.10.2.2.1	2019	Subparagraphs (i) and (j)(2) Revised	Correct a cross reference	
400	8.10.2.2.2	2019	(1) Subparagraphs (ff)(4) and (tt) added (ff)(4) Test emergency terminal stopping device for conformance with 2.25.4.2. (tt) The means to view the USI on site. See 2.26.1.7.3	Rationale: to add emergency terminal stopping means in 8.10. Rationale: Provide inspection criteria to verify the USI in the on-site documentation matches the required viewable USI for apparatus and the maintenance record (8.6.1.4.1).	
	8.10.2.2.2	2019	(2) Subparagraphs (ii)(1)(-b), (ii)(1)(-c), ii)(1)(-f), (ii)(4)(-a), (ii)(4)(-b), and (ii)(4)(-c) Revised		
403	8.10.2.2.3	2019	Subparagraph (k) Revised	add reference to electric elevator requirement	
405	8.10.2.2.7	2019	In subpara. (a)(1), reference to 8.6.11.9 corrected by errata	errata	
405	8.10.2.3.2	2019	(1) Subparagraphs (a), (d), (g), (i), (j), (l) through (q), (s), and (u) Revised		
403	8.10.2.3.2	2019	(2) Subparagraphs (v) through (rr) added		
408	8.10.3.2.2	2019	Subparagraph (jj) added	; ; ;	
410	8.10.3.2.5	2019	Subparagraphs (d) and (n) Revised		
411	8.10.3.2.7		In subpara. (a)(1), reference to 8.6.11.9 corrected by errata		
411	8.10.3.3.2		(1) Subparagraphs (a), (d), (g), (j), (n), (o), and (q) through (s) Revised		
			(2) Subparagraphs (t) through (pp) added		
413	8.10.4.1.1		Subparagraph (p)(3) Revised		
414	8.10.4.1.2		Subparagraph (t) Revised	i	
416	8.10.4.2.2		(1) Subparagraphs (i) and (j) Revised	i 	
			(2) Subparagraphs (k) through (o) added		
			nspections and Witnessing of Tests		
419	8.11.1.2		Notes Revised	 	
420	8.11.2.1.2		Subparagraph (oo) added	 	
421	8.11.2.1.6		Revised in its entirety	 	
421	8.11.2.1.7		In subpara. (a)(1), reference to 8.6.11.9 corrected by errata	 	
422	8.11.3.1.2		Subparagraph (dd) added		
423	8.11.3.1.5		(1) Subparagraph (d) Revised		
422	0 11 2 1 7		(2) Subparagraph (r) added		
423	8.11.3.1.7		In subpara. (a)(1), reference to 8.6.11.9 corrected by errata] 	
423	8.11.4.1	2019	Subparagraph (k) Revised	į	

			Change	CHANGE NOTES	
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				green = summary highlight	
	8.13 Sign:	s, Pla	ites, and Tags		
			Added		durable, metal or other.
			SECTION 8.13 SIGNS, PLATES, AND TAGS		
			8.13.1 Permanent Plates		No stick on foil labels.
			Data plates and capacity plates shall (a) be made of metal or other durable materials designed to last the life of the		No writing stamping or
			equipment. Stick-on foil or paper labels shall not be permitted.	Add New. To provide a location in code for reference to gathered /	No writing, stamping or scratching info onto the plate.
425	Section 8.13		equipment. Stek on for or paper tables shall not be permitted.	consolidated signage requirements.	scratching into onto the plate.
.23	30000011 0.13	2013	(15 lb). In addition, adhesive- attached plates shall conform to the requirements	Annilla ta Bata and Ganacita Blata	
			of UL 969 or CAN/CSA C22.2, whichever is applicable.	Applies to Data and Capacity Plates	
			8.13.1.3 The use of writing instruments, stamping, and scratching to apply the		
			lettering and figures shall not be permitted.		
			8.13.2 Signs	Applies to signs.	Durable to listed codes
			The sign shall conform to the requirements of ANSI Z535.2 or CAN/CSA C22.2-		
425		2019	Z321, shall be made of a durable material, and shall be securely fastened.		
			8.13.3 Marking Plates and Tags	Add new section to recognize some marking plates or tags require the addition of	Durable, last a life time
			Marking plates and tags shall	data by field personnel.	
			(a) be made of metal or other durable materials designed to last the life of the		securely attached
			equipment.		
425	Section 8.13	2019	(b) be securely attached to prevent removal when subjected to a force of 65 N (15 lb).		writing, stamping scratching IS PERMITTED
723	Section 6.13	2013	(c) permit the use of writing instruments, stamping, and scratching to apply the		
			lettering and figures.		other non field entered info to
			(d) be provided with preprinted permanent letters and figures on marking plates		be Preprinted
			and tags with letters or figures not less than 3 mm (0.125 in.) high.		

	What's New in ASME A17.1-2013 to A17.1-2019 CSA B44-13 to CSA B44:19					
rage .	Req'mt # see update)	Yr	Change	CHANGE NOTES Comments in blue, new text in red, original code text in black green = summary highlight	Enforcement & Notes	
	ART 9					
9.	.1 Refere		Documents			
	Part 9		(1) Introductory text Revised			
			(2) In Section 9.1, ADA/ABAAG and FED-STD-595C added			
		2019	(3) In Section 9.1, ASME A17.8/CSA B44.8, ASME B29.1, ASME B29.8, ASME			
427			B29.100, CSA C22.2 No. 141, and UL 924 Revised			
		7019	(4) In Section 9.1, ASME B29.2M-1982 (R1987) and ASME B29.15-1973 (R1987)			
			deleted			
NI.			(5) Section 9.2 updated			
Nonmandatory Appendix						
449 T	Table F-1		Table F-1 Traction Elevator Brake Type, Function, and Performance Revised	Rationale: To revise Table F-1 in the Non-Mandatory Appendix F to be consistent with code requirements in 2.24.8.2 and 2.16.8.		
	Figure G-1		NONMANDATORY APPENDIX G TOP-OF-CAR CLEARANCE	Rationale: To clarify that both 2.4.7.1 and 2.14.1.7.2 reference		
452 Fi		2019	Figure G-1 Top-of-Car Clearance Requirements Revised	Non-Mandatory Appendix G.		
466 i	onmandator Appendix L	2019	NONMANDATORY APPENDIX L INDEX OF ALTERATION REQUIREMENTS FOR ELECTRIC ELEVATORS, HYDRAULIC ELEVATORS, ESCALATORS, AND MOVING WALKS Revised	Updated		
483 T	Table P-1		Table P-1 Plunger Gripper Stopping Distances With Rated Load in the Car (8.6.5.16.4) Title Revised	Rationale: to add inspections procedures for plunger gripper. Editorially amend table for clarity.		
489	Nonmandator y Appendix S		NONMANDATORY APPENDIX S HORIZONTALLY AND VERTICALLY SLIDING DOORS- ILLUSTRATIONS OF DETECTION ZONES (2.13.3.4 AND 2.13.5.4) (1) Title Revised (2) Figures S-13 through S-16 added	Add figures for door detection zones used on horizontally sliding doors		
УА		2019				
510 T	Table X-1	2019	Lines 10, 11, 24, and 27 Revised	update cross references for acceptance tests		
511 T	Table X-2		Table X-2 Acceptance Test for Hydraulic Elevators Acceptance Test: Hydraulic Elevators (1) Line 19 deleted and following lines redesignated (2) Lines 24 (formerly 25), 28	update cross references for acceptance tests		
			(formerly 9), and 29 (formerly 30) Revised			
512 T	Table X-3	2019	Lines 1, 3, 17, 22, and 25 Revised	update cross references for acceptance tests		
513 T	Table X-4		Table X-4 Acceptance Test for Moving Walks Acceptance Test: Moving Walks Lines 1, 3, 16, and 21 Revised	update cross references for acceptance tests		
	onmandator Appendix AA	2019	NONMANDATORY APPENDIX AA CHECKLIST FOR FIREFIGHTERS' EMERGENCY OPERATION (8.6.11.1) Added			
522	Index	2019	Updated			