

TITLE 23 - BUILDING CODES

Chapter 23.75 LOCAL AMENDMENTS TO THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) A17.1 -
~~2016/CSA B44-16~~ SAFETY CODE FOR ELEVATORS AND ESCALATORS

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23.75.0 Local Amendments to the American Society of Mechanical Engineers A17.1 Standard.

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The amendments to the ~~2016 edition of the American Society of Mechanical Engineers A17.1 Standard - ASME~~ Safety Code for Elevators and Escalators (~~ASME A17.1~~) are listed hereafter by section. The structure of amendments is as explained in AMC 23.05.015. ~~The last digits of the number (after the title and chapter digits) are the sections of the Safety Code for Elevators and Escalators to which the amendments refer.~~

23.75.1.1.4 Effective Date.

Amend Section 1.1.4 to read as follows:

The effective date for ~~the ASME A17.1-2016~~ 2019 edition will be that which is decided upon by the Municipality of Anchorage (MOA) Assembly.

23.75.1.3 Definitions.

In 1.3-Definitions: Amend the definition of "elevator personnel" to read as follows:

Elevator personnel: persons who have been trained in the construction, maintenance, repair, inspection, or testing of the particular type of device they are constructing, maintaining, repairing, inspecting, or testing.

23.75.2.2.2 Design and Construction of Pits.

Replace section 2.2.2.3 with the following:

For pits subject to the periodic accumulation of ground water, a permanent drain or sump pump shall be installed. For pits not subject to the periodic accumulation of ground water, the permanent installation of a drain or sump pump is not required, unless required by Section 2.2.2.5.

Replace section 2.2.2.5 with the following:

Elevators serving 4 or more stories above or 4 or more stories below the level of fire department vehicle access and elevators serving Group I-2 occupancies shall be provided with a gravity drain or sump pump. The level of fire department vehicle access shall be considered the first story. The drain or sump pump shall have the capacity to remove a minimum of 50 gallons per minute per common elevator hoistway or pit. This provision does not apply to existing elevator hoistways.

Add the following sections:

2.2.2.7 Sump pumps serving elevators required to be powered by a standby or emergency generator shall also be powered by the standby or emergency generator.

~~2.2.2.8 Hydraulic elevator pit drainage shall pass through an oil/water separator, or other approved means shall be employed to prevent the discharge of hydraulic fluid.~~

2.2.2.9-8 Discharge shall go into the building sanitary drainage system or to an approved location on the exterior of the building.

2.2.2.10-9 Discharging into the building sanitary drainage system shall be through an air gap or air break into an approved indirect waste receptor. The indirect waste receptor shall be of such shape and capacity to control splashing or flooding and shall be located where readily accessible for inspection. The sanitary drainage system must be sized in accordance with the plumbing code to accommodate the rate of flow.

2.2.2.11-10 The discharge point shall be permanently labeled "ELEVATOR PIT DISCHARGE" in letters a minimum of ½ inch in height. Discharge resulting from periodic ground water accumulation shall not flow over a walking surface and shall not create a nuisance or hazard. Discharge resulting from fire suppression shall not create a hazard.

23.75.2.7.6.2 Location of Machinery Spaces and Control Spaces.

Amend section to read as follows:

2.7.6.2 Location of machinery spaces and control spaces. Machinery spaces may be located inside or outside the hoistway. Control spaces are not permitted inside the hoistway unless it can be accessed without shutting down the car. Control spaces are only permitted inside the building.

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23.75.2.27.1.1.3 ~~XXXXX~~Emergency Communication.

Amend subsection (c) to read as follows:

(c) On the same panel as the phone push button, a Message or visual indication shall be displayed that is activated by authorized personnel to acknowledge that communications are established. The message or visual indication shall be permitted to be extinguished where necessary to display a new message or visual signal or when communications are terminated."

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Delete subsections (d), (e), and (k).

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23.75.2.27.1.1.4 Emergency Communications.

Amend the first paragraph of section 2.27.1.1.4 to read as follows:

Where the elevator rise is 18 m (60 ft) or more, a two-way voice communication means shall be located in the fire command center. If there is no fire command center, then it shall be located adjacent to the main fire alarm panel, adjacent to the main elevator entrance(s) at the primary re-call landing of the building or in a location approved by the AHJ. The two-way voice communication means shall comply with the following requirements.

23.75.5.3.1.6.6 ~~XXXXX~~Access Doors and Openings.

Add item (4) as follows:

(4) Permitted to be secured by means of tamper-resistant fastening hardware provided that they are located at least 79" above finished floor and not larger than 600 mm (24 inches) in width and height.

23.75.5.3.1.19.2.3 ~~XXXXX~~Monitoring the Hoistway Door Locking Device Contacts.

AmendDelete the above section to read as follows:

The car shall not be permitted to restart until the door locking device contacts have been returned to the normal operating position. Delete entire section.

23.75.6.1.3.15 Water Accumulation.

Amend the last sentence of section 6.1.3.15 to read as follows:

Drains and sump pumps, where provided, shall comply with the applicable plumbing code and shall be provided with a positive means to prevent water, gases, and odors from entering the pit.

23.75.6.2.3.18 Water Accumulation.

Amend the last sentence of section 6.2.3.18 to read as follows:

Drains and sump pumps, where provided, shall comply with the applicable plumbing code and shall be provided with a positive means to prevent water, gases, and odors from entering the pit.

23.75.8.1.2 Group 1: Restricted.

Amend section 8.1.2, by adding subparagraphs (e), (o) and (p) as follows:

- (e) Requirement 2.7.6.3.2(b), motor controller cabinet door(s) or panel(s), shall apply to new installations only.
- (o) Requirement 3.19.4.4, access to a manual lowering valve, shall apply to new installations only.
- (p) Requirement 3.19.4.5, access to pressure gauge fittings, shall apply to new installations only.

23.75.8.4.10.1.1 (j) Earthquake Equipment.

Delete subsection 8.4.10.1.1 (i).

23.75.8.6.1.1.2 Maintenance, Repair and Replacement.

Amend section 8.6.1.1.2 by adding subparagraph (d) to read as follows:

- (d) The manufacturer's design and intended function of components and systems.

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23.75.8.6.1.7.2 Periodic Test Record.

Amend section 8.6.1.7.2 to read as follows:

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 and elevator contractor performing the tests, shall be created and shall be safely and securely stored with the On-Site Maintenance Records in the machine room/space, Control room/space for each unit or in a location on the premises approved by the Authority Having Jurisdiction. The record of periodic tests shall be recorded on the approved applicable Municipality of Anchorage test form.

23.75.8.6.4 Maintenance and Testing of Electric Elevators.

Delete Section 8.6.4.19.7 Standby or Emergency Power Operation.

Add Section 8.6.4.20.12 to read as follows:

8.6.4.20.12 Standby or Emergency Power Operation. Operation of elevators equipped with Standby or Emergency power shall be tested to determine conformance with the applicable requirements (Item 1.17.2.1). Tests shall be performed with no load in the car.

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Add Subsection 8.6.4.24 as follows:

8.6.4.24 Systems to Monitor and Prevent Automatic Operation of Passenger and Freight Elevators with Faulty Door Contact Circuits. All automatic passenger and freight elevators shall comply with 2.26.5 by the date of January 1st 6 years from adoption of code.

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23.75.8.6.5. 14.3 Additional Tests Maintenance and Testing of Hydraulic Elevators.

Amend section 8.6.5.14.3 by adding items/subparagraphs (j), (k) and (l) as follows:

- (j) Emergency Communication (8.6.4.19.15)
- (k) Means to Restrict Hoistway or Car Door Opening (8.6.4.19.16)
- (l) Inspect and record measurement of Top Runby of car with elevator on its stop ring

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Delete from section 8.6.5.14.3 item (f).

Add section to read as follows:

8.6.5.16.7 Standby or Emergency Power Operation. Operation of elevators equipped with Standby or Emergency power and that operate within a group and equipped with a generator selector switch shall be tested to determine conformance with the applicable requirements (Item 1.17.2.2). Tests shall be performed with no load in the car. Elevators equipped with Standby or Emergency power that are not part of a group shall have its visual signal at the

primary landing tested by simulation operation of generator and verified as operational if the elevator is so equipped with this visual signal.

Add section as follows:

8.6.5.19 Systems to Monitor and Prevent Automatic Operation of Passenger and Freight Elevators with Faulty Door Contact Circuits. All automatic passenger and freight elevators shall comply with 2.26.5 by the date of January 1st 6 years from adoption of code.

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~~23.75.8.6.10.1.1 Periodic Test.~~

Amend the first sentence of 8.6.10.1.1 to read as follows:

~~"Dumbwaiters and Material Lifts shall be subject to the applicable periodic tests specified in Sections 8.6.4.19, 8.6.4.20, 8.6.5.14, 8.6.5.16"~~

~~23.75.8.6.10.2. Periodic Test.~~

Amend the first sentence of 8.6.10.2.1 to read as follows:

~~"Dumbwaiters and Material Lifts with automatic transfer devices shall be subject to the applicable periodic tests specified in Sections 8.6.4.19, 8.6.4.20, 8.6.5.14, 8.6.5.16"~~

23.75.8.6.11.1 Firefighters' Emergency Operation.

Amend section 8.6.11.1 to read as follows:

8.6.11.1 Firefighter's Emergency Operation. Firefighter's Emergency Operation (Phase 1 & 2) shall be subjected to periodic testing not less than once for every 3-month period of time. Testing may be performed by authorized personnel or elevator personnel with documentation and results of the tests recorded on a test form approved by the AHJ. The test form shall be made available to elevator personnel and the Authority Having Jurisdiction and shall be stored with the maintenance records for that elevator or in a location approved by the AHJ.

23.75.8.7.1.1 Applicability of Alteration Requirements.

Amend section 8.7.1.1 to read as follows:

8.7.1.1 Applicability of Alteration Requirements. When any Alteration is performed, regardless of other requirements of section 8.7, the installation, as a minimum, shall conform to the applicable Code requirements identified in subparagraphs (a) and (b) of this section. When a modernization is performed, regardless of other requirements of section 8.7, the installation, as a minimum, shall conform to the applicable code requirements

identified in subparagraphs (a) through (c) of this section. For the purposes of administrating the requirements of section 8.7, a "Modernization" shall be defined as controller replacement, or a change in type of motion or operation control.

- (a) The code at the time of installation
- (b) The code requirements for the alteration at the time of any alteration
- (c) ASME A17.3

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23.75.8.7.1 General Requirements.

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Add section to read as follows:

8.7.1.11. When alterations are performed on an existing elevator that require compliance with Section 2.12, an Unlocking zone from the landing floor level not greater than 18 inches shall be permitted in lieu of a 7-inch unlocking zone, when the original effective code of the elevator permitted an 18 inch unlocking zone and the elevator was previously equipped with a means of restricting opening of the car door prior to the Alteration.

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23.75.8.7.2.14.5.2 XXXXX Addition of Car Top Railing.

Amend section to read as follows:

8.7.2.14.5.2. Where conformance with 2.14.1.7 is not possible due to existing overhead conditions the height of the top rail shall be permitted to be reduced to 39 inches or a stowable design, e.g., foldable or collapsible.

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23.75.8.7.2.29 Electric Seismic Requirements.

Add section 8.7.2.29 to read as follows:

8.7.2.29 Electric Seismic Requirements. When the alteration includes replacing the controller or drive machine, the installation shall conform to section 8.4.10. For other seismic upgrades made to the equipment, the equipment and work performed shall conform to the requirements of section 8.4 where applicable.

23.75.8.7.3.32 Hydraulic Seismic Requirements.

Add section 8.7.3.32 to read as follows:

8.7.3.32 Hydraulic Seismic Requirements. When the alteration includes replacing the controller, hydraulic machine or hydraulic jack, the installation shall conform to sections 8.4.11.11, 8.4.11.12 and section 8.4.11.13. For other seismic upgrades made to the equipment, the equipment and work performed shall conform to the requirements of section 8.4 where applicable.

23.75.8.10.1.1.4 Acceptance Test Tags.

Delete section 8.10.1.1.4

23.75.8.10.1.1.5 Acceptance Test Records.

Amend section 8.10.1.1.5 by adding the following sentence to the end of the section:

The test record shall be installed to be readily visible and shall be permanently attached on or adjacent to the controller of each unit.

23.75.8.11.1.1.2 Periodic Tests.

Amend section 8.11.1.1.2 to read as follows:

The owner or the owner's authorized agent shall have all of the periodic tests required by 8.6.4, 8.6.5, 8.6.6, 8.6.7 & 8.6.8, performed by elevator personnel as defined in A17.1-2016. All periodic tests required by 8.6.4, 8.6.5, 8.6.6 & 8.6.7 shall be permitted to be witnessed by the elevator personnel. Periodic test results shall be reviewed for compliance by a Municipality of Anchorage (MOA) Elevator Inspector during their periodic inspections required by 8.11.2, 8.11.3 and 8.11.5. The elevator personnel shall record the test results on the approved MOA A17.1-2016 periodic test form. The MOA A17.1-2016 periodic test form shall be placed in the elevator machine room/space or control room/space, or other location approved by the Authority Having Jurisdiction for review by the MOA Elevator Inspectors during their periodic inspections required by 8.11.2, 8.11.3 and 8.11.5. For Periodic test requirements listed in 8.6.8 (Escalators and Moving Walks), The MOA Elevator Inspector shall be the witness to the tests, on years when periodic inspections are due at the time that the periodic inspection is being performed, except that the Step/Skirt Performance Index test and the Comb-step / Comb-pallet Impact test may be permitted to be performed, witnessed and documented by elevator personnel at a time other than when the periodic inspection occurs.-

At major modernization acceptance inspections, all Category-1, 3 & 5 tests applicable to a conveyance shall be witnessed by a MOA Elevator Inspector.

23.75.8.11.1.2 Applicability of Inspection Requirements.

Amend section 8.11.1.2 by adding subparagraph (d) as follows:

- (d) The manufacturer's design and intended function of components and systems.

23.75.8.11.1.3 Periodic Inspection and Test Frequency.

Amend section 8.11.1.3 to read as follows:

8.11.1.3 Periodic Inspection and Test Frequency. The inspection and test intervals for all equipment covered by ASME A17.1 shall be as noted in Appendix N, Table N-1, except as noted in subparagraphs (a) through (d):

- (a) Periodic inspections for all equipment except escalators, moving walks and all private residence conveyances shall be performed at intervals of 24 months.
- (b) Periodic inspections for escalators and moving walks shall be performed at intervals of 12 months.

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- (c) All private residence conveyances shall be exempt from periodic inspection requirements.
 - (d) Periodic Inspections may also be performed at any time in situations where alterations to the equipment has occurred, deficiencies from previous reports remain unresolved, when an accident involving the equipment has been reported to the department, when a complaint regarding the safety of the equipment has been reported to the department and in all instances when the department has reason to believe that the equipment may be operating in an unsafe condition.

