

1307.0067 AMENDMENTS TO ASME A17.1/CSA B44-2016.

Subpart 1. **ASME A17.1/CSA B44-2016 2.2.2.4.** ASME A17.1/CSA B44-2016 2.2.2.4 is amended by adding a paragraph to read as follows:

An elevator pit drain shall discharge to the sanitary sewer using an indirect connection that precludes the possibility of sewage backup into the pit. If a sump is used, it shall be located outside the pit with a dry pan drain flowing to it. The sump for the elevator pit drain shall not be located in the elevator machine room.

Subp. 2. **ASME A17.1/CSA B44-2016 2.5.1.1 Between car and hoistway enclosures.** ASME A17.1/CSA B44-2016 2.5.1.1 is amended to read as follows:

2.5.1.1. Between car and hoistway enclosures. The clearance between the car and the hoistway enclosures shall not be less than 0.8 inches (20 mm), except on the sides used for loading and unloading. The distance between the car and the hydraulic piping, hydraulic fittings, electrical piping, electrical boxes, steam or hot water piping where permitted, sprinkler piping, where permitted, or any other item not by elevator design shall not be less than 0.8 inches (20 mm).

Subp. 3. **ASME A17.1/CSA B44-2016 2.7.3.1 General requirements.** ASME A17.1/CSA B44-2016 2.7.3.1 is amended by adding the following:

2.7.3.1.4 Access to elevator equipment space as referenced in 2.7.3.1.1 and 2.7.3.1.2 shall not be through any toilet room.

Subp. 4. **ASME A17.1/CSA B44-2016 2.7.4.1.** ASME A17.1/CSA B44-2016 2.7.4.1 is amended by adding a sentence to the end of the section as follows:

Raised surfaces intended as working space surrounding equipment shall have 72 inches clear headroom measured from the working surface.

Subp. 5. **ASME A17.1/CSA B44-2016 2.12.6.2.5.** ASME A17.1/CSA B44-2016 2.12.6.2.5 is amended to read as follows:

The unlocking-device keyway and locked panel (see ASME A17.1/CSA B44-2016 2.12.6.2.3) if provided, shall be located at a height not greater than 83 inches (2100 mm) above the landing and all keyways, with the exception of the keyway at the bottom landing and all private residence elevator keyways, shall have keyed plugs installed with the key for those plugs kept in the key box as defined in subpart 9.

Subp. 6. **ASME A17.1/CSA B44-2016 2.12.7.1.** ASME A17.1/CSA B44-2016 2.12.7.1 is amended to read as follows:

2.12.7.1.1 Hoistway access switches shall be provided when the rate of speed is greater than 30 ft./min. at:

A. the lowest landing for access to the pit, when a separate access door is not provided; and

B. the top landing for access to the top of the car.

Subp. 7. **ASME A17.1/CSA B44-2016 2.12.7.1.2.** ASME A17.1/CSA B44-2016 2.12.7.1.2 is deleted in its entirety.

Subp. 8. **ASME A17.1/CSA B44-2016 2.14.7.1.4.** ASME A17.1/CSA B44-2016 2.14.7.1.4 is amended to read as follows:

Each elevator shall be provided with an electric light that includes an OSHA-recognized guard and a GFCI convenience outlet fixture on both the car top and the bottom of the car.

Subp. 9. **ASME A17.1/CSA B44-2016 2.27 Emergency operation and signaling devices.** ASME A17.1/CSA B44-2016 2.27 is amended by adding the following language at the beginning of section 2.27.8:

2.27.8 Switch keys. The key switches required by ASME A17.1/CSA B44-2016 2.27.2 to 2.27.5 for elevators in a building shall be operable by the same key. The keys shall be a Group 3 Security (see section 8.1). There shall be a key for each switch provided. Keys shall be painted or marked red.

These keys shall be kept on premises, in a key box labeled "Fire Dept" approved by the authority having jurisdiction. The key box shall be located in the elevator lobby, on the main egress floor or in the fire command room. When there is not a fire command room and site conditions prohibit installation at the elevator lobby, the authority having jurisdiction shall specify the location of the Fire Dept key box. Keys for emergency access doors (2.11.1.2) and hoistway door unlocking device (2.12.6.2.4) of Group 1 shall be accessible to emergency personnel and a set shall be included in the elevator emergency key box.

Where applicable, Groups 1, 2, and 3 (see section 8.1) security shall be provided in a separate black trimmed key box approved by the authority having jurisdiction. The key box shall be labeled "Elevator Personnel Only" located in the elevator machine room or location specified by the authority having jurisdiction. Keys shall be tagged and labeled. The locked cylinder shall be uniformly keyed throughout the state.

Subp. 10. **ASME A17.1/CSA B44-2016 2.27.1.1.3(a).** ASME A17.1/CSA B44-2016 2.27.1.1.3(a) is deleted in its entirety.

Subp. 11. **ASME A17.1/CSA B44-2016 3.28.1 Information included on layout drawing.** ASME A17.1/CSA B44-2016 3.28.1 is amended by adding the following subitem:

(p) the method used to comply with 3.18.3.8 (protection of cylinders buried in the ground).

Subp. 12. **ASME A17.1/CSA B44-2016 4.3.15 Car safeties.** ASME A17.1/CSA B44-2016 4.3.15 is amended by adding a sentence to read as follows:

All hand-powered elevators shall be equipped with a broken rope safety device.

Subp. 13. **ASME A17.1/CSA B44-2016 7.2.4.6 Application of safeties.** ASME A17.1/CSA B44-2016 7.2.4.6 is amended by adding a sentence at the end of the section as follows:

All hand-powered dumbwaiters shall be equipped with a broken rope safety device.

Subp. 14. **ASME A17.1/CSA B44-2016 8.10.1.1.3.** ASME A17.1/CSA B44-2016 8.10.1.1.3 is deleted and replaced with the following:

Elevator inspector qualifications. Inspectors shall have a current license issued by the Department of Labor and Industry as a master elevator constructor or elevator journeyworker constructor.

Inspectors shall have proof of successful completion of the National Elevator Industry Education program examination, equivalent program, or equivalent experience. Within 18 months of the employment start date, any person performing inspections shall be certified to the ASME QEI-1 standard as a qualified elevator inspector (QEI) by an organization recognized by the commissioner. Upon initial certification, persons performing inspections shall maintain the QEI certification.

Subp. 15. **ASME A17.1/CSA B44-2016 8.11.1.3 Periodic inspection and test frequency.** ASME A17.1/CSA B44-2016 8.11.1.3 Periodic inspection and test frequency. The frequency as established by the authority having jurisdiction shall be as stated in the Minnesota Table N-1.

MINNESOTA TABLE N-1

INSPECTION AND TEST INTERVALS IN "MONTHS"

Reference Section	Equipment Type	Periodic Tests			
		Periodic Inspections		Category 1	
		Require- ment	Interval	Require- ment	Interval
8.11.2	Electric elevators	8.11.2.1	12	8.6.4.19	12
8.11.3	Hydraulic elevators	8.11.3.1	12	8.6.5.14	12
8.11.4	Escalators & moving walks	8.11.4.1	12	8.6.8.15	12
8.11.5.1	Sidewalk elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.3	Hand elevators	8.11.2.1	12	8.6.4.19	12
8.11.5.4	Dumbwaiters	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.5	Material lifts & dumbwaiters w/automatic transfer devices	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.6	Special purpose personnel elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.7	Inclined elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12

8.11.5.8	Shipboard elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.9	Screw-column elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.10	Rooftop elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.12	Limited use/limited-application elevators	8.11.2.1, 8.11.3.1	12	8.6.4.19, 8.6.5.14	12
8.11.5.13	Elevators used for construction	8.11.2.1, 8.11.3.1	3	8.6.4.19, 8.6.5.14	12

Periodic Tests

Periodic Inspections

Category 3

Reference Section	Equipment Type	Requirement	Interval	Requirement	Interval
8.11.2	Electric elevators	8.11.2.1	12	N/A	N/A
8.11.3	Hydraulic elevators	8.11.3.1	12	8.6.5.15	60
8.11.4	Escalators & moving walks	8.11.4.1	12	N/A	N/A
8.11.5.1	Sidewalk elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.3	Hand elevators	8.11.2.1	12	N/A	N/A
8.11.5.4	Dumbwaiters	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.5	Material lifts & dumbwaiters w/automatic transfer devices	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.6	Special purpose personnel elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.7	Inclined elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.8	Shipboard elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.9	Screw-column elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60

8.11.5.10	Rooftop elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.12	Limited use/limited-application elevators	8.11.2.1, 8.11.3.1	12	8.6.5.15	60
8.11.5.13	Elevators used for construction	8.11.2.1, 8.11.3.1	3	8.6.5.15	60

Periodic Tests

Periodic Inspections

Category 5

Reference Section	Equipment Type	Requirement	Interval	Requirement	Interval
8.11.2	Electric elevators	8.11.2.1	12	8.6.4.20	60
8.11.3	Hydraulic elevators	8.11.3.1	12	8.6.5.16	60
8.11.4	Escalators & moving walks	8.11.4.1	12	N/A	N/A
8.11.5.1	Sidewalk elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.3	Hand elevators	8.11.2.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.4	Dumbwaiters	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.5	Material lifts & dumbwaiters w/automatic transfer devices	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.6	Special purpose personnel elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.7	Inclined elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.8	Shipboard elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.9	Screw-column elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.10	Rooftop elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60

8.11.5.12	Limited use/limited-application elevators	8.11.2.1, 8.11.3.1	12	8.6.4.20, 8.6.5.16	60
8.11.5.13	Elevators used for construction	8.11.2.1, 8.11.3.1	3	8.6.4.20, 8.6.5.16	60

GENERAL NOTE: The intervals in this table shall be for periodic tests and inspections. Factors such as the environment, frequency and type of usage, quality of maintenance, etc., related to the equipment should be taken into account by the authority having jurisdiction prior to establishing more frequent inspection and test intervals.

Statutory Authority: *MS s 16B.59; 16B.61; 16B.64; 16B.748; 326B.02; 326B.101; 326B.106; 326B.13; 326B.187*

History: *31 SR 935; L 2007 c 140 art 4 s 61; art 13 s 4; 39 SR 91; 45 SR 301*

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