

CHAPTER 72
NEW INSTALLATIONS

[Prior to 9/24/86, Labor, Bureau of [530]]

[Prior to 10/21/98, see 347—Ch 72]

875—72.1(89A) Purpose and scope. This chapter contains rules of safety standards covering the design, construction, installation, operation, inspection, testing, maintenance, alteration and repair of conveyances. No new or previously dormant conveyance may be installed except in accordance with the safety standards adopted by reference in this chapter.

72.1(1) Installations—January 1, 1975, to December 31, 1982. As used in this chapter, ANSI A17.1 shall mean ANSI A17.1 (1971).

72.1(2) Installations—January 1, 1983, to December 31, 1992. As used in this chapter, ANSI A17.1 shall mean ANSI A17.1 (1981). As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (1980).

72.1(3) Installations—January 1, 1993, to December 31, 2000. As used in this chapter, ASME A17.1 shall mean ASME A17.1 (1990). As used in this chapter, ANSI/NFPA 70 shall mean ANSI/NFPA 70 (1990). As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (1980).

72.1(4) Installations—January 1, 2001, to December 31, 2003. As used in this chapter, ASME A17.1 shall mean ASME A17.1 (1996 through the 1999 addenda). As used in this chapter, ASME A18.1 shall mean ASME A18.1 (1999), except chapters 4, 5, 6, and 7. As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (1998). As used in this chapter, ANSI/NFPA 70 shall mean ANSI/NFPA 70 (1999).

72.1(5) Installations—January 1, 2004, to April 4, 2006. As used in this chapter, ASME A17.1 shall mean ASME A17.1 (2000 through the 2003 addenda). As used in this chapter, ASME A18.1 shall mean ASME A18.1 (1999 through the 2001 addenda), except chapters 4, 5, 6, and 7. As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (1998). As used in this chapter, ANSI/NFPA 70 shall mean ANSI/NFPA 70 (2002).

72.1(6) Installations—April 5, 2006, through July 22, 2008. As used in this chapter, ASME A17.1 shall mean ASME A17.1-2004, A17.1a-2005 and A17.1S-2005. As used in this chapter, ASME A18.1 shall mean ASME A18.1 (2003), except chapters 4, 5, 6, and 7. As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (2003), except for rule 407.4.6.2.2. As used in this chapter, ANSI/NFPA 70 shall mean ANSI/NFPA 70 (2005).

72.1(7) Installations—on or after July 23, 2008. This subrule applies to installations on or after July 23, 2008. As used in this chapter, ASME A17.1 shall mean ASME A17.1-2007/CSA B44-07. As used in this chapter, ASME A17.7 shall mean ASME A17.7-2007/CSA B44-07. As used in this chapter, ASME A18.1 shall mean ASME A18.1 (2003), except chapters 4, 5, 6, and 7. As used in this chapter, ANSI A117.1 shall mean ANSI A117.1 (2003), except for rule 407.4.6.2.2. As used in this chapter, ANSI/NFPA 70 shall mean ANSI/NFPA 70 (2005).

72.1(8) As used in this rule, the word “installed” refers to the date of a written contractual agreement to install a new conveyance or reinstate a dormant conveyance.

875—72.2(89A) Definitions. The definitions contained in Part 1 of ASME A17.1, Part 1 of ASME A18.1, and Chapter 1 of ANSI A117.1, and any other standard adopted herein by reference shall be applicable as used in this chapter to the extent that they do not conflict with the definitions contained in Iowa Code chapter 89A and these rules.

875—72.3(89A) Accommodating the physically disabled. All passenger elevators installed between January 1, 1975, and December 31, 1982, which are available and intended for public use shall be usable by the physically disabled. All passenger elevators shall have control buttons with identifying features for the benefit of the blind and shall allow for wheelchair traffic. All passenger elevators and wheelchair lifts installed on or after January 1, 1983, which are accessible to the general public shall comply with Accessible and Usable Buildings and Facilities ANSI A117.1, sections 407 and 408.

875—72.4(89A) Electric elevators. The provisions contained in ASME A17.1, part 2, are adopted by reference.

875—72.5(89A) Hydraulic elevators. The provisions contained in ASME A17.1, part 3, are adopted by reference.

875—72.6(89A) Power sidewalk elevators. The provisions contained in ASME A17.1, section 5.5, are adopted by reference.

875—72.7(89A) Performance-based safety code. Conveyances may comply with ASME A17.7, in whole or in part, as an alternative to ASME A17.1.

875—72.8(89A) Hand and power dumbwaiters. The provisions contained in ASME A17.1, sections 7.1, 7.2, 7.3, and 7.8, are adopted by reference.

875—72.9(89A) Escalators and moving walks. The provisions contained in ASME A17.1, part 6, are adopted by reference.

875—72.10(89A) General requirements. The provisions contained in ASME A17.1, part 8, are adopted by reference unless specifically excluded herein.

875—72.11(89A) Acceptance and periodic tests and inspections of elevators, dumbwaiters, escalators and moving walks. The provisions contained in ASME A17.1, sections 8.10 and 8.11, except section 8.11.1.1, are adopted by reference.

875—72.12(89A) Wind tower lifts. Wind tower lifts authorized by this rule shall not be installed in grain elevators, high-rise buildings, water towers, television towers or any facility other than a wind tower built for the production of electricity. This rule applies to all wind tower lifts, whether installed before or after May 28, 2008; however, this exception shall not apply to a wind tower lift if the contract for its installation is executed after an AECO is accredited.

72.12(1) Wind tower lifts that meet the requirements of subrules 72.12(2) through 72.12(10) are exempt from the requirements of ASME A17.1. This temporary exemption shall terminate for a wind tower lift upon the occurrence of at least one of the following events:

a. Three weeks have passed since the accreditation of at least one AECO, and the manufacturer of the wind tower lift has not filed with the labor commissioner an affidavit attesting that a request for Certificate of Conformance as described by ASME A17.7 (2007) was submitted to an AECO.

b. The AECO has reviewed a request pursuant to ASME A17.7 and refused to issue a Certificate of Conformance for the model or series of lifts.

c. The AECO has determined that modifications to the wind tower lift are necessary, and the modifications have not been made with reasonable diligence.

d. The AECO has determined that modifications to the wind tower lift are necessary, and the labor commissioner determines the wind tower lift is not safe to operate prior to completion of the modifications.

e. The AECO has reviewed an application pursuant to ASME A17.7 and issued a Certificate of Conformance for the model or series of lifts.

72.12(2) A wind tower lift placed in operation on or before May 28, 2008, shall be registered by the owner with the labor commissioner no later than July 1, 2008, and shall pass an installation inspection by inspectors employed by the labor commissioner according to the schedule set by the labor commissioner. The wind tower lift shall receive a periodic inspection by the labor commissioner's inspectors annually thereafter.

72.12(3) The owner of a wind tower lift installed after May 28, 2008, shall register the wind tower lift with the labor commissioner prior to its installation. A wind tower lift installed after May 28, 2008, shall pass an installation inspection by the labor commissioner's inspectors prior to its being placed into operation. The wind tower lift shall receive a periodic inspection by the labor commissioner's inspectors annually thereafter.

72.12(4) Registration pursuant to this rule requires submission of the following information to the labor commissioner:

- a.* The unique identifier of the wind tower.
- b.* The name of the wind tower owner and contact information for the owner's representative.
- c.* The name of the wind tower lift manufacturer and contact information for the manufacturer's representative.
- d.* The location of the wind farm.
- e.* The blueprints and design documents that are certified by a professional engineer duly licensed in the state of Iowa and that bear the professional engineer's P.E. stamp for the lifts.
- f.* The manufacturer's complete test procedures, inspection checklists, operating manual, service manual, and related documents as determined necessary by the labor commissioner.

72.12(5) The owner shall notify the labor commissioner within 30 days of any change in the information provided pursuant to 72.12(4) "b" and "c."

72.12(6) This subrule establishes reporting requirements in addition to the requirements of rule 875—71.3(89A). The manufacturer of a lift must notify the labor commissioner in writing within one week if one of its wind tower lifts anywhere in the world is involved in a personal injury accident requiring the service of a physician, a personal injury accident causing disability exceeding one day or death, or an incident causing property damage exceeding \$2,000. The notification shall specifically identify the model number, serial number, and owner of the lift, and a description of the incident or accident. The labor commissioner shall determine and require necessary inspections, tests, changes or enhancements to prevent a similar incident or accident in this state.

72.12(7) Wind tower lifts must comply with 29 CFR 1910.

72.12(8) The manufacturer shall notify the labor commissioner within 7 days of notification to the manufacturer that an AECO has:

- a.* Issued a Certificate of Conformance for the model or series of wind tower lifts,
- b.* Refused to issue a Certificate of Conformance for the model or series of wind tower lifts, or
- c.* Determined that modifications to the wind tower lifts are necessary.

72.12(9) Wind tower lifts shall pass an inspection covering the following criteria:

- a.* Ascending speed, descending speed, and emergency descending speed shall not exceed the manufacturer's recommendations.
- b.* Stop switch, interior lighting, cage entry door, door contact, operating controls and remote operating controls shall operate according to manufacturer's recommendations.
- c.* Interior floor and cage framework shall appear to be structurally sound.
- d.* Enclosure signage recommended by the manufacturer shall be in place.
- e.* Manufacturer's data plate shall be visible.
- f.* Hoisting mechanism shall appear to be structurally sound and intact from inside and outside the car.
- g.* Guide shoes shall appear to be structurally sound and undamaged.
- h.* Suspended power cords and strain relief devices shall reveal no visible damage.
- i.* Upper and lower normal and final limits shall operate according to the manufacturer's recommendations.
- j.* Overspeed device shall successfully pass a full-load test.
- k.* Overload device shall successfully pass an overload test according to the manufacturer's recommendations.
- l.* Wire rope, safety rope, and guide rope shall show no evidence of wear.
- m.* Guide rope attachments, suspension attachment beam, beam tower attachments, suspension rope attachment, suspension rope secondary attachment (if present), and guide wire rope attachments shall show no evidence of wear or fatigue.
- n.* The wind tower lift shall not drift when subjected to a static full load.
- o.* Maintenance logs, tags, and other necessary documentation shall be available in sufficient detail to establish that maintenance is occurring pursuant to the manufacturer's schedule.

p. Guide rope tension device, safety rope tension device, and suspension rope tension device shall pass a visual test for proper tension.

q. Power cord catch basket shall pass a visual inspection.

r. Safety set distance, overspeed trip speed, overload limit setting, and maximum overload allowed shall not exceed manufacturer's recommendations.

s. A communication device, if installed in the car, shall be operable.

t. Any other items on the manufacturer's recommended inspection checklist shall pass inspection.

72.12(10) The owner or owner's representative shall provide weights as needed to perform necessary tests during inspections.

875—72.13(89A) Alterations, repairs, replacements and maintenance. Rescinded IAB 11/26/03, effective 1/1/04.

875—72.14(89A) Design data and formulas. Rescinded IAB 11/26/03, effective 1/1/04.

875—72.15(89A) Power-operated special purpose elevators. The provisions contained in ASME A17.1, section 5.7, are adopted by reference.

875—72.16(89A) Inclined and vertical wheelchair lifts. The provisions contained in ASME Safety Standard for Platform Lifts and Stairway Chairlifts A18.1, sections 1, 2, 3, 8, 9, and 10, are adopted by reference for all inclined and vertical wheelchair lifts.

875—72.17(89A) Hand-powered elevators. Hand-powered elevators shall not be installed after January 1, 1983.

875—72.18(89A) Accommodating the physically disabled. Renumbered as 875—72.3(89A), IAB 11/26/03, effective 1/1/04.

875—72.19(89A) Limited-use/limited-application elevators. The provisions contained in ASME A17.1, section 5.2, are adopted by reference.

875—72.20(89A) Rack and pinion, screw-column elevators. The provisions contained in ASME A17.1, sections 4.1 and 4.2, are adopted by reference.

875—72.21(89A) Inclined elevators. The provisions contained in ASME A17.1, section 5.1, are adopted by reference.

875—72.22(89A) Material lift elevators. The provisions contained in ASME A17.1, Sections 7.4 and 7.5, are adopted by reference for Type B material lift elevators installed on or after July 23, 2008. Material lift elevators used exclusively for the movement of materials are not subject to regulation under Iowa Code chapter 89A.

875—72.23(89A) Elevators used for construction. The provisions contained in ASME A17.1, section 5.10, are adopted by reference only as they pertain to elevators utilizing permanent equipment in a permanent location.

875—72.24(89A) Construction personnel hoists. The provisions of American National Standards Institute (ANSI) A10.4-2007 are adopted by reference for construction personnel hoists as defined by ANSI A10.4-2007. Notwithstanding the ANSI definition, these conveyances may be used only temporarily during construction.

These rules are intended to implement Iowa Code chapter 89A.

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