1307.0110 MINNESOTA AMENDMENTS TO ASME A18.1-2005.

Subpart 1. **ASME A18.1-2005 Section 2.1 Runways.**

A. ASME A18.1-2005 2.1.2.5 is amended to read as follows:

2.1.2.5. All doors, except as provided in paragraph 2.1.2.9, shall be provided with a combination mechanical lock and electric contact. Locking devices shall be protected against tampering from the landing side. The locking devices shall permit a door to be opened only if the platform floor is within two inches (51 mm) of the respective landing. The platform shall be permitted to move away from the landing under control of the normal operating device if the door is closed but not locked, provided that the device will cause the platform to stop if it moves more than two inches (51 mm) away from the landing before the door is locked.

B. ASME A18.1-2005 2.1.2 Partial runway enclosure provided, is amended by adding a new paragraph 2.1.2.9 to read as follows:

2.1.2.9. Where the lift is installed at a location that does not have guards at the upper landing as allowed by building codes (see definition), the requirements of paragraphs 2.1.2.2, 2.1.2.3, and 2.1.2.4 shall be permitted to be omitted when platform gates are provided. They shall extend to a height at least equal to the top terminal landing height plus six inches (152 mm) measured when the platform is at its lowest position. The gates shall be of unperforated construction, self-closing, and be provided with electric contact to prevent movement of the platform if the gates are not closed. The gates shall not be permanently deformed when a force of 125 lbf (556 N) is applied on any four-inch (102 mm) by four-inch (102 mm) area.

C. ASME A18.1-2005 2.1.2 Partial runway enclosure provided, is amended by adding a new paragraph 2.1.2.10 to read as follows:

2.1.2.10. The clearance between the platform floor and the upper landing sill shall be permitted to be increased to three inches (76 mm) if a platform gate complying with paragraph 2.1.2.9 and an automatically folding ramp to service the upper landing is provided. When deployed, the ramp shall have a minimum overlap at the upper landing sill of two inches (51 mm) and shall be substantially level. It shall be provided with an electric contact, which will stop the movement of the platform within six inches (152 mm) of travel away from the upper landing if the ramp has failed to rise to its retracted position.

D. ASME A18.1-2005 2.1.3 Runway enclosure not provided.

For purposes of A18.1-2005 Section 2 Vertical platform lifts, 2.1.3 is deleted in its entirety. However, as referenced in A18.1-2005 Section 5.1 Runways, 2.1.3 remains in full force and effect.

E. ASME A18.1-2005 2.1.5 Lower level access ramps and pits is amended to read as follows:

2.1.5 Lower level across ramps and pits. Lifts shall be permitted to have a pit. Where a pit is not provided, a floor-mounted or retractable platform floor-mounted ramp complying with the requirements for ramps in ICC/ANSI A17.1 and having a maximum rise of four inches (100 mm) shall be provided. When backing down an incline from the lift platform may be necessary, the slope of the incline shall not exceed one in 20.

F. ASME A18.1-2005 2.1.5.1 is deleted in its entirety.

G. ASME A18.1-2005 2.1.5.2 is deleted in its entirety.

Subp. 2. **ASME A18.1-2005 2.7.1 Limitation of load, speed, and travel.** ASME A18.1-2005 2.7.1 Limitation of load, speed, and travel is amended to read as follows:

2.7.1 Limitation of load, speed, and travel. The rated load shall not be less than 450 lbs. (200 kg) nor more than 750 lbs. (340 kg). The lift shall be capable of sustaining and lowering a load as specified in figure 9.7. The rated speed shall not exceed 30 ft./min. (0.15 m/s). The travel shall not exceed 168 inches (4250m^2). Platforms with a floor greater than 15 $ft.^2$ (1.4 m^2) shall have a rated load of not less than 750 lbs. (340 kg).

Subp. 3. **ASME A18.1-2005 Section 2.10 Operating devices and control equipment.**

A. ASME A18.1-2005 2.10.1 Operation is amended to read as follows:

2.10.1 Operation. Operation of the lift from the landings and from the platform shall be controlled by "UP" and "DOWN" control switches at all stations, and shall be by means of the continuous pressure type. Control switches shall be two inches (50 mm) minimum wide and four inches (100 mm) minimum high. Controls shall be 48 inches (1220 mm) maximum and 15 inches (380 mm) minimum above the platform floor or facility floor or ground level. Operation devices shall be designed so that both the "UP" and "DOWN" circuits cannot be operated at the same time.

B. ASME A18.1-2005 2.10.2.2 is amended to read as follows:

2.10.2.2. The attendant shall operate the platform by means of a continuous pressure switch so located that the attendant has full view of the platform throughout its travel. A manually reset emergency stop switch shall also be provided at that location.

Subp. 4. **ASME A18.1-2005 Section 2.11 Emergency signals.**

A. ASME A18.1-2005 Section 2.11 Emergency signals is amended to read as follows:

2.11 Emergency signals. If the platform is installed in an area not visible or audible to persons at all times, or installed in an enclosed runway, emergency signaling devices shall

be provided in accordance with the requirements of paragraphs 2.11.1 and 2.11.2. Standby power shall be provided in accordance with paragraph 2.11.3.

B. ASME A18.1-2005 2.11.2 is amended to read as follows:

2.11.2. The lift shall be provided with a means of two-way communication complying with ASME A17.1-2004.

Subp. 5. **ASME A18.1-2005 Section 2.12 Standby power.** ASME A18.1-2005 Section 2.12 Standby power is amended as follows:

2.12 Standby power. Vertical lifts equipped with standby power shall comply with this chapter.

2.12.1 Standby power. Except where permitted by 2.12.1.1, the vertical lift shall be powered by a standby power system from the building.

2.12.1.1 Battery power. A lift equipped with rechargeable battery power capable of cycling the lift under full load for five cycles minimum after building power is removed shall be permitted.

2.12.1.2 Battery power, rated number of cycles. Except where permitted by 2.12.1.3, where a lift provided with battery power serves an area with more wheelchair users than the rated number of cycles provided by battery power, or where the authority having jurisdiction determines that the anticipated number of wheelchair users is greater than the rated number of cycles provided by battery power, the lift shall be powered by a standby power system from the building.

2.12.1.3 Existing buildings without standby power. Where an existing building is not required to provide a building standby power system, the installation of a lift shall not require the installation of a building standby power system. A battery standby power system complying with 2.12.1.1 shall be provided.

2.12.1.4 Auxiliary items. Auxiliary items necessary for lift operation such as power doors and runway lighting shall remain operational under standby power.

Subp. 6. **ASME A18.1-2005 3.6.8 Platform guarding.** ASME A18.1-2005 3.6.8 Platform guarding is amended to read as follows:

3.6.8 Platform guarding. Platform guarding shall be in accordance with paragraph 3.6.8.1, or, when safety issues are effectively addressed and approved by the authority having jurisdiction, in accordance with paragraph 3.6.8.2.

Subp. 7. **ASME A18.1-2005 Section 3.10.1 Operation.** ASME A18.1-2005 3.10.1 Operation is amended to read as follows:

3.10.1 Operation. Operation of the lift from the landings and from the platform shall be controlled by "UP" and "DOWN" control switches at all stations, and shall be by means

of the continuous pressure type. Control switches shall be two inches (50 mm) minimum wide and four inches (100 mm) minimum high. Controls shall be 48 inches (1220 mm) maximum and 15 inches (380 mm) minimum above the platform floor or facility floor or ground level. Operation devices shall be designed so that both the "UP" and "DOWN" circuits cannot be operated at the same time.

Subp. 8. **ASME A18.1-2005 Section 3.11 Emergency signals.**

A. ASME A18.1-2005 Section 3.11 Emergency signals is amended to read as follows:

3.11 Emergency signals. If the lift is installed in an area not visible or audible to persons at all times, or installed in an enclosed runway, emergency signaling devices shall be provided in accordance with the requirements of paragraphs 3.11.1 and 3.11.2.

B. ASME A18.1-2005 3.11.2 is amended to read as follows:

ASME 3.11.2. The lift shall be provided with a means of two-way communication complying with ASME A17.1-2004.

Subp. 9. **ASME A18.1-2005 Section 3.12 Standby power.** ASME A18.1-2005 Section 3.12 Standby power is amended to read as follows:

3.12 Standby power. Inclined lifts equipped with standby power shall comply with this chapter.

3.12.1 Standby power. Except where permitted by paragraph 3.12.1.1, the inclined lift shall be powered by a standby power system from the building.

3.12.1.1 Battery power. A lift equipped with rechargeable battery power capable of cycling the lift under full load for five cycles minimum after building power is removed shall be permitted.

3.12.1.2 Battery power, rated number of cycles. Except where permitted by paragraph 3.12.1.3, where a lift provided with battery power serves an area with more wheelchair users than the rated number of cycles provided by battery power, or where the authority having jurisdiction determines that the anticipated number of wheelchair users is greater than the rated number of cycles provided by battery power, the lift shall be powered by a standby power system from the building.

3.12.1.3 Existing buildings without standby power. Where an existing building is not required to provide a building standby power system, the installation of a lift shall not require the installation of a building standby power system. A battery standby power system complying with 3.12.1.1 shall be provided.

3.12.1.4 Auxiliary items. Auxiliary items necessary for lift operation such as power doors and runway lighting shall remain operational under standby power.

Subp. 10. **ASME A18.1-2005 6.1.2 Clearances.** ASME A18.1-2005 6.1.2 Clearances is amended to read as follows:

6.1.2 Clearances. Clearances between the platform and adjacent surfaces shall not be less than .75 inches (29 mm). At no point in its travel shall the edge of the platform facing the upper landing be more than 24 inches (610 mm) above a step or landing as measured vertically. Headroom clearance measured vertically from any position on the platform floor shall be 54 inches (1370 mm) minimum throughout the travel of the platform or alternate methods, approved by the authority having jurisdiction, shall be provided, which will stop the movement of the platform in the direction of travel should the clearance be reduced.

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

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

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