

## Chapter Comm 18

## ELEVATOR CODE

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Note: Chapter Ind 4 as it existed on August 31, 1988 was repealed and a new chapter ILHR 18 was created effective September 1, 1988. Chapter ILHR 18 was renumbered to be chapter Comm 18 under s. 13.93 (2m) (b) 1., Stats., and corrections made under s. 13.93 (2m) (b) 6. and 7., Stats., Register, October, 1996, No. 490. Corrections were made under s. 13.93 (2m) (b) 6., Stats., Register, April, 1998, No. 508. Chapter Comm 18 as it existed on November 30, 1999 was repealed and a new chapter Comm 18 was created effective December 1, 1999.

**Subchapter I — Administration and Enforcement**

**Comm 18.01 Purpose and scope.** Pursuant to ss. 101.12, 101.13 and 101.17, Stats., the purpose of this chapter is to protect the health, safety and welfare of the public and

employes by establishing minimum standards for the design, construction, installation, operation, inspection, testing, maintenance, alteration and repair of elevators and related devices installed in or at all public buildings and places of employment.

Note: Refer to A17.1 Section 1 and s. Comm 18.17 for scope and application requirements.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.04 Petition for variance.** The department shall consider and may grant a variance to a provision in this chapter in accordance with ch. Comm 3. The petition for variance shall include, where applicable, a position statement from the fire department having jurisdiction.

Note: Chapter Comm 3 requires the submittal of a petition for variance form (SBD 9890) and a fee, and that an equivalency is established in the petition for variance that meets the intent of the rule being petitioned. Chapter Comm 3 also requires the department to process regular petitions within 30 business days and priority petitions within 10 business days.

Note: Copies of the petition for variance form SBD-9890 are available at no charge from the Safety and Buildings Division, P.O. Box 2509, Madison, Wisconsin 53707 for telephone (608) 266-1818 or TTY (608) 264-8777.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.05 Penalties.** Penalties for violations of this chapter shall be assessed in accordance with s. 101.02, Stats.

Note: Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employe thereof, fails to observe and comply with an order of the department will constitute a separate and distinct violation of such order.

Note: Section 101.02 (13) (a), Stats., indicates penalties will be assessed against any employer, employe, owner or other person who fails or refuses to perform any duty lawfully enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with subchapter 1 of ch. 101, Stats. For each such violation, failure or refusal, such employe, owner or other person must forfeit and pay into the state treasury a sum not less than \$10 nor more than \$100 for each violation.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.06 Appeals. (1) APPEAL OF LOCAL ORDER.** Pursuant to s. 101.02 (7) (b), Stats., any person affected by a local order which may be in conflict with a provision of this chapter may petition the department for a hearing on the grounds that the local order is unreasonable and in conflict with the rule of the department.

Note: Section 101.01 (8), Stats., defines "local order" as any ordinance, order, rule or determination of any common council, board of alderpersons, board of trustees or the village board, of any village or city, a regulation or order of the local board of health, as defined in s. 250.01 (3), or an order or direction of any official of a municipality, upon any matter over which the department has jurisdiction.

Note: See s. 101.02 (7), Stats., for additional information on appeal of a local order.

**(2) PETITION OF ADMINISTRATIVE RULE.** Pursuant to s. 227.12, Stats., any municipality, corporation or any 5 or more persons having an interest in an administrative rule may petition the department requesting the adoption, amendment or repeal of the rule.

Note: See s. 227.12, Stats., for additional information on petitioning of rules.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.07 Fees.** Fees for plan examination, installation application, inspection, permit to operate and other services performed by the department pertaining to elevators and related equipment shall be submitted as specified in ch. Comm 2.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.08 Enforcement. (1) GENERAL.** Department and municipal inspectors and independent inspectors who have received a letter of authorization from the department shall enforce this chapter. The department shall interpret the rules in this chapter, including those in the incorporated ASME A17.1 standard. Requests for interpretations shall be in writing to the department.

**(2) ACCIDENT REPORTING. (a) Accidents to be reported.** Whenever an elevator or other installation covered by this chapter causes injury to any person, the owner or person in control of the elevator shall notify the department within 48 hours of the accident. The report shall include the date and time of the accident,

the location of the elevator or device involved in the accident and description of the accident.

Note: The department may be contacted by Phone: (715) 726-4520; FAX: (715) 726-2549; TTY: (608) 264-8777; or E mail: tbenbnister@commerce.state.wi.us to file an accident report.

**(b) Operation discontinued.** When an accident involves the failure or destruction [of] an elevator or other installation covered by this chapter and results in injury to a person who requires immediate medical attention, the elevator or device shall be taken out of service and shall not be used again until authorized by the department.

**(c) Removal of parts restricted.** No part of the damaged installation, construction or operating mechanism shall be removed from the premises until the department grants permission.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

## Subchapter II — General Requirements

**Comm 18.09 Plan examination and responsibilities.**

**(1) NEW INSTALLATIONS.** At least 4 copies of bound plans and specifications for all new installations covered by this chapter and at least 4 copies of the department application form SBD-22 shall be submitted to the department or municipality for examination and approval. The plans shall include all of the following information:

(a) A plan of the car, hoistway and machine room for showing all clearances, including all inside car dimensions specified in this chapter and ch. Comm 69.

(b) A section through the hoistway, machine room, pit and car showing all applicable dimensions. All landings shall be clearly shown, indicating types of hoistway doors or gates.

(c) A complete dimensioned layout of the machine room showing working clearances around machine, controller and disconnecting means.

(d) The size and weight per foot of guiderails and details of their support, including reinforcements where required.

(e) Sufficient data and information to determine if the elevator, mechanical lifting device and machine room comply with the requirements of this chapter, the building code and ch. Comm 69.

**(2) ALTERATIONS AND REPLACEMENTS. (a) Plans and application required.** At least 4 copies each of plans and specifications complying with sub. (1) and department application form SBD-22 shall be submitted to the department or municipality for examination and approval for any of the following alterations and replacements:

1. Alterations specified in A17.1 1003.3 (b), (d), (g), (i), (j) and (n), A17.1 1006.3 (b), (d), (g), (i), (j) and (n) and A17.1 1009.3 (a), (b), (c), (e), (g) and (h).

2. Change in classification from freight to passenger service or from passenger to freight service.

3. Addition of hoistway doors or gates.

4. Relocation of machine room or machinery space or changes in machine room or machinery space layout.

5. Replacement of an existing driving machine by a new driving machine.

6. Replacement of an existing controller by a new controller.

7. Increase or decrease in travel on a hydraulic elevator.

**(b) Application only required.** At least 4 copies of a completed department application form SBD-22 shall be submitted to the department or municipality for examination and approval for any of the following alterations and replacements:

1. Alterations specified in A17.1 1003.3 (a), (c), (e), (f), (h), (k), (l) and (m), A17.1 1006.3 (a), (c), (e), (f), (h), (k), (l), (m) and (o), A17.1 1009.3 (d), (f), (i), (j), (k) and (m).

2. Change in type of operation or control.

3. Addition of phase I emergency recall and phase II emergency in-car operation specified in ASME A17.1 211.3.

4. Change in size or type of suspension ropes.
5. Addition of top-of-car operating devices.
6. Alteration of hoistway-door, car-door or gate operating devices.
7. Replacement of hoistway doors.
8. Addition of hoistway-door locking devices or gate operating devices.
9. Changes to comply with accessibility requirements specified in ch. Comm 69, ADAAG 4.10.6.

Note: See s. Comm 2.15 for fee requirements.

Note: Copies of the application form SBD-22 are available at no charge from the Safety and Buildings Division, P.O. Box 2509, Madison, Wisconsin 53707 or telephone (608) 266-1818 or TTY (608) 264-8777.

(3) DEPARTMENT ACTIONS. (a) *Review of plans.* All approvals of plans and applications for installation or alteration shall be performed by municipal elevator inspectors or by the department.

(b) *Conditional approval.* If, upon examination, the department or municipality determines that the plans and application for installation or alteration substantially comply with the provisions of this chapter, a conditional approval, in writing, shall be granted. All noncode-complying conditions stated in the conditional approval shall be corrected before or during construction. A conditional approval issued by the department or municipality shall not be construed as an assumption of any responsibility for the design or construction of the equipment.

(c) *Revocation of approval.* The department or municipality may revoke any approval, issued under the provisions of this chapter, for any false statements or misrepresentation of facts on which the approval was based.

(d) *Denial of approval.* If the department or municipality determines that the plans or the application do not substantially comply with the provisions of this chapter, the application for conditional approval shall be denied, in writing.

(e) *Processing time.* The department or municipality shall review and make a determination on an application for approval of an installation or an alteration within 15 business days of receiving the required information.

(4) OWNER'S RESPONSIBILITY. The submission of plans, specifications and application form shall be the responsibility of the building owner when the manufacturer, manufacturer's representative or distributor does not submit that information.

(5) INSTALLER'S RESPONSIBILITY. (a) *On-site fabrication or installation.* On-site fabrication or installation shall not commence before the application and plans are approved. The elevator approval letter shall be posted prior to construction at or near the equipment space at the construction site, and shall remain posted until passing the final inspection.

(b) *Availability of plans on site.* The installer of equipment as specified in s. Comm 18.17 installed in a public building or place of employment shall provide a copy of the approved elevator or lift plans to be available at the building site.

(c) *Maintenance information.* The installer shall provide to the owner's representative the maintenance requirements necessary for the safe operation of the lift equipment installed.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.12 Permit to operate.** (1) **ISSUANCE.** If the department or municipality, after inspection, determines that the installation complies with the provisions of this chapter, a permit to operate shall be issued by the department or municipality. The department or municipality shall issue a permit to operate within 10 business days from receipt of the inspection report. The permit to operate shall be kept on the premise.

(2) **EXPIRATION.** Permits to operate shall be effective from the date of issuance until 20 business days after the next routine inspection.

(3) **REVOCAION.** The department or municipality may revoke the permit to operate if the equipment is found to be in noncom-

pliance with the applicable safety standard. Upon revocation of the permit to operate, the department or municipality shall notify the owner, in writing, of the noncomplying items and afford the owner the opportunity for a hearing within 30 days after the date of revocation.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.13 Construction and operation.** All installations of equipment under the scope of this chapter shall conform to the American National Standard Safety Code for Elevators and Escalators, ASME A17.1-1996, incorporated by reference in this chapter, and the requirements specified in this chapter.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.14 Adoption of standards by reference.**

(1) **CONSENT TO INCORPORATE.** (a) Pursuant to s. 227.21, Stats., the attorney general and the revisor of statutes have consented to the incorporation by reference of the American National Standard Safety Code for Elevators and Escalators, ASME A17.1-1996, subject to those changes, additions and omissions specified in subch. III.

(b) The American National Standard Safety Code for Elevators and Escalators, ASME A17.1-1996, subject to the changes, additions and omissions specified in subch. III is hereby incorporated by reference into this chapter.

Note: Copies of the ASME A17.1-1996 standard can be obtained from the ASME Order Department, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300, or telephone (800) THE-ASME.

Note: Copies of the standard in reference are on file in the offices of the department, the secretary of state, and the revisor of statutes.

Note: See s. Comm 51.25 for other standards incorporated by reference that apply to public buildings and places of employment.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### Subchapter III — Changes, Additions or Omissions to Adopted Standards

**Comm 18.16 Changes, additions or omissions to ASME A17.1.** Changes, additions or omissions to the ASME A17.1 standard are specified in this subchapter and are rules of the department and are not requirements of the ASME A17.1 standard.

Note: The referenced A17.1 section or rule number, located in brackets, follows the Comm designation and precedes the text of the rule. Example: Comm 18.23 [A17.1 106.1b].

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### INTRODUCTION

**Comm 18.17 Scope and application [A17.1 Section 1].** (1) **EQUIPMENT COVERED BY THIS CODE [A17.1 1.1].** These are department rules in addition to the requirements of A17.1 1.1:

(a) *Stage and orchestra lifts.* This chapter applies to stage and orchestra lifts.

(b) *Private residence elevators and lifts.* Private residence elevators complying with A17.1 Part 5 without the modifications in ss. Comm 18.36 to 18.41 and private residence lifts complying with A17.1 Part 21 shall not be installed in public buildings or places of employment, except within an individual private dwelling unit.

(2) **EQUIPMENT NOT COVERED BY THIS CODE [A17.1 1.2].** This is a department exception to the requirements of A17.1 1.2: Stage and orchestra lifts as specified in ASME A17.1 1.2 (q) are not exempt from the requirements of this chapter. Stage and orchestra lifts shall comply with the applicable rules of Parts 1, 2 and 3 of ASME A17.1.

Note: Conveyors, personnel hoists and manlifts located in the private sector are covered by the Occupational Health and Safety Act. In the public sector, this equipment is covered by ch. Comm 32.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.175 Purpose and exceptions [A17.1 Section 2].** A17.1 Section 2, Purpose and Exceptions does not apply.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.18 Definitions [A17.1 Section 3]. (1) ADDITIONS.** The following department definitions are used in ch. Comm 18 are in addition to the definitions in A17.1 Section 3:

(a) "Department" means the department of commerce.

(b) "Clear floor space" means the minimum unobstructed floor or ground space required to accommodate a single, stationary wheelchair and occupant.

(c) "Fire-resistant rating" means a rating as defined in s. Comm 51.01 (50).

(d) "Health care facility" has the meaning given in s. Comm 51.01 (68a).

(e) "Medical clinic" means a building or facility where the primary use of the building or facility is providing health or medical services for people.

(f) "Municipality" means a city employing an elevator inspector certified by the department.

Note: See ch. Comm 5 for elevator inspector certification requirements.

(g) "Place of employment" has the meaning given in s. 101.01 (11), Stats.

Note: Section 101.01 (11), Stats., reads "Place of employment" includes every place, whether indoors or out or underground and the premises appurtenant thereto where either temporarily or permanently any industry, trade or business is carried on, or where any process or operation, directly or indirectly related to any industry, trade or business, is carried on, and where any person is, directly or indirectly, employed by another for direct or indirect gain or profit, but does not include any place where persons are employed in private domestic service which does not involve the use of mechanical power or in farming. "Farming" includes those activities specified in s. 102.04 (3), and also includes the transportation of farm products, supplies or equipment directly to the farm by the operator of said farm or employes for use thereon, if such activities are directly or indirectly for the purpose of producing commodities for market, or as an accessory to such production. When used with relation to building codes, "place of employment" does not include an adult family home certified under s. 50.01 (1) or, except for the purposes of s. 101.11, a previously constructed building used as a community-based residential facility, as defined in s. 50.01 (1g), which serves 20 or fewer unrelated residents.

(h) "Public building" has the meaning given in s. 101.01 (12), Stats.

Note: Section 101.01 (12), Stats., reads "Public building" means any structure, including exterior parts of such building, such as a porch, exterior platform or steps providing means of ingress or egress, used in whole or in part as place of resort, assemblage, lodging, trade, traffic, occupancy, or use by the public or by 3 or more tenants. When used in relation to building codes, "public building" does not include a previously constructed building used as a community-based residential facility as defined in s. 50.01 (1g) which serves 20 or fewer unrelated residents or an adult family home defined under s. 50.01 (1).

**(2) SUBSTITUTIONS.** The following department definitions are substitutions for the corresponding definitions in A17.1 Section 3:

(a) "Approved" means acceptable to the department.

(b) "Building code" means chs. Comm 50 to 64, 66 and 70.

(c) "Installations, existing" means an installation that has been completed or for which the elevator contract was awarded before December 1, 1999.

(d) "Installations, new" means any installation not classified as an existing installation by definition, or an existing elevator, dumbwaiter, escalator, inclined lift, or moving walk moved to a new location for which the elevator contract was awarded on or after December 1, 1999.

(e) "Installations placed out of service" means any of the following.

1. Elevator installations where all of the following are provided:

a. The conductors are disconnected from the load side terminals of the machine room circuit breaker or disconnect switch and sealed by the department.

b. The hoistway landing doors or gates are securely sealed to prevent opening from the landings.

2. Escalator or moving walk installations where all of the following are provided:

a. The conductors are disconnected from the load side terminals of the machine room circuit breaker or disconnect switch and sealed by the department.

b. The entrances have been permanently barricaded.

3. Hand elevator installations where hoistway doors or gates are sealed, car platforms are substantially blocked and hoisting cables are removed from the car crosshead.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### **Part 1—Hoistways, Hoistway Enclosures and Related Construction for Electric Elevators**

**Comm 18.19 Construction of hoistways and hoistway enclosures [A17.1 100]. (1) PARTIALLY ENCLOSED HOISTWAYS [A17.1 100.1c].** This is a department rule in addition to the requirements of A17.1 100.1c (3): This protection shall be not less than 7 feet in height.

**(2) DIFFERENCE IN FLOOR LEVELS [A17.1 100.3f].** This is a department rule in addition to the requirements of A17.1 100.3f: A toe board not less than 4 inches high shall be provided at the edge of the higher level.

**(3) CONTROL OF SMOKE AND HOT GASES [A17.1 100.4].** This is a department rule in addition to the requirements of A17.1 100.4: A ventilation opening in a hoistway wall, where provided, shall have guards securely anchored to the supporting structure inside the hoistway, consisting of a wire-mesh screen of at least 0.0915-inch diameter steel wire with openings which will reject a ball one inch in diameter, or expanded metal screen of equivalent strength and open area.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.20 Machine rooms and machinery spaces [A17.1 101]. (1) ACCESS TO MACHINE ROOMS AND MACHINERY SPACES [A17.1 101.3]. (a) General requirements [A17.1 101.3a].** These are department rules in addition to the requirements of A17.1 101.3a:

1. Access to the machine room or penthouse for elevators shall not be through any toilet room, sleeping room or private quarters.

2. Access to other spaces in the building or facility shall not pass through the machine room.

**(b) Access doors and openings [A17.1 101.3d].** This is a department rule in addition to the requirements of A17.1 101.3d (1): The entrance to the machine room and control rooms shall be identified with a permanent sign. The lettering on the sign shall be at least one-inch high and shall state "elevator machine room."

**(2) VENTILATION FOR MACHINERY AND CONTROL EQUIPMENT.** This is a department informational note in addition to the requirements of A17.1 101.5b:

Note: See s. Comm 64.18 (1) (b) for requirements prohibiting the transfer of contaminated air.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.21 Installation of pipes or ducts conveying gases, vapors or liquids in hoistways, machine rooms or machinery spaces [A17.1 102.2].** The following are department rules in addition to the requirements of A17.1 102.2:

**(1) SUMPS AND SUMP PUMPS.** Sumps and sump pumps shall not be located in the elevator machine room.

**(2) INSTALLATION OF SPRINKLERS. (a) Sprinklers in hoistway or machine room.** Where automatic fire sprinklers are installed in a new or existing elevator hoistway or machine room, or both, all of the following shall apply.

1. Sprinklers shall comply with the requirements of NFPA 13 as adopted in s. Comm 51.25.

2. Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with A17.1 211.3 through 211.9 for fire fighters' service.

3. Smoke detectors used to initiate fire fighters' service shall comply with the requirements of NFPA 72 as adopted in s. Comm 51.25.

4. The means provided to automatically disconnect the main line power supply shall comply with NFPA 72 as adopted in s. Comm 51.25.

(b) *Acceptance test.* An acceptance test shall be conducted in the presence of the authority having jurisdiction and the test shall verify compliance with this chapter.

Note: See Appendix for explanatory material.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.22 Guarding [A17.1 104.L].** These are department rules in addition to the requirements of A17.1 104.1:

(1) **GUARDING HEIGHTS.** Guarding above 7'-0" high is not required.

(2) **GUARDING OF MACHINERY SPACES.** The openings in machinery room floors, through which cables pass, shall be fitted with suitable guards to prevent any loose material from coming in contact with the cables, and to prevent any loose parts from dropping through the openings. The guards shall be at least 2 inches high and shall be securely attached to the floor.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.23 Design and construction of pits [A17.1 106.1b].** Substitute the following wording for A17.1 106.1b (3): Drains and sumps complying with ss. Comm 82.33 and 82.36 shall be provided. Drains connected directly to sanitary drain systems shall not be installed in elevator pits.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.24 Bottom and top clearances and run-bys for elevator cars and counterweights [A17.1 107].**

(1) **BOTTOM CAR CLEARANCES [A17.1 107.1a].** This is a department rule in addition to the requirements of A17.1 107.1a (3): Refuge space shall be outlined in contrasting colors and be identified "REFUGE SPACE" by 2-inch high letters marked on the pit floor.

(2) **REFUGE SPACE ON TOP OF CAR ENCLOSURE [A17.1 107.1k].** This is a department rule in addition to the requirements of A17.1 107.1k: The refuge space of 650 square inches shall be outlined by a contrasting color and identified "REFUGE SPACE" by 2-inch high letters on the top of all car enclosures.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.25 Between cars and landing sills [A17.1 108.1d].** Substitute the following wording for the last sentence in A17.1 108.1d: The maximum clearance between the car platform sill and the edge of any hoistway landing shall be no greater than 1-1/4 inches.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.26 Hoistway-door locking devices, car door or gate electric contacts, hoistway access switches, and elevator parking devices [A17.1 111].**

(1) **LOCATION AND DESIGN OF HOISTWAY DOOR UNLOCKING DEVICES [A17.1 111.9e].** Substitute the following wording for A17.1 111.9e (2): The device shall be installed at all landings.

(2) **ACCESS TO HOISTWAYS FOR EMERGENCY PURPOSES [A17.1 111.10].** Substitute the following wording for A17.1 111.10:

(a) The unlocking device operating key shall be located adjacent to the elevator disconnecting means located in the machine room. The key shall be identified and the following instructions shall be posted: "Place the disconnecting means in the off position and lock it, prior to using the hoistway door unlocking key."

(b) The machine room door key shall be available to fire department, police department or authorized personnel.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### Part 2—Machinery and Equipment for Electric Elevators

**Comm 18.27 Vertically sliding doors or gates [A17.1 204.5c].** This is a department rule in addition to the requirements

of A17.1 204.5c: Vertical sliding doors and gates are not permitted on passenger elevators.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.28 Marking plates for safeties [A17.1 205.14].** This is a department rule in addition to the requirements of A17.1 205.14: The manufacturer's identification, as designated on the approved plans required by s. Comm 18.09, shall also be marked on the metal plate.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.29 Speed-governor marking plate [A17.1 206.9].** This is a department rule in addition to the requirements of A17.1 206.9: The manufacturer's identification, as designated on the application form required by s. Comm 18.09, shall also be marked on the metal plate.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.295 Minimum rated load for passenger elevators [A17.1 207.1].** These are department rules in addition to the requirements of A17.1 207.1:

(1) **NEW CONSTRUCTION.** Except as specified in sub. (2), in all buildings four stories or more in height and in all health care facilities, including medical clinics, at least one elevator shall be provided for fire department emergency access to all floors. These elevator cars shall be of such a size and arrangement to accommodate a 24-inch by 76-inch ambulance stretcher in the horizontal, open position. The door and car size shall permit the entrance and exit of an ambulance stretcher without tilting the stretcher at any time.

Note: See s. Comm 51.01 (122) for definition of "story".

(2) **EXISTING CONSTRUCTION.** If a new elevator hoistway is constructed in an existing building and the car size specified in sub. (1) cannot be provided, the minimum clear platform size [shall] comply with ch. Comm 69, ADAAG 4.1.6 (3) (c) (ii) or (iii). Information shall be submitted with the elevator plans justifying why the larger size elevator cannot be installed.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.30 Operating devices and control equipment [A17.1 210].** (1) **INSPECTION OPERATION [A17.1 210.1d (2)].** This is a department rule in addition to the requirements of A17.1 210.1d (2) (a): A portable type shall be provided with hardware to securely mount it when not in use.

(2) **ELECTRICAL EQUIPMENT AND WIRING [A17.1 210.4].** (a) *Electrical code.* This is a department rule in addition to the requirements of A17.1 210.4: All electrical equipment and wiring shall comply with ch. Comm 16, Electrical Code.

(b) *Exemption.* A17.1 210.4 (b) does not apply.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.31 Emergency operation and signaling devices [A17.1 211].** (1) **STANDBY EMERGENCY POWER [A17.1 211.2].** This is a department note in addition to the requirements of A17.1 211.2:

Note: Special emergency standby power requirements for elevators in healthcare facilities are found in the National Electrical Code, Article 517 as adopted under ch. Comm 16, and for high-rise buildings these requirements are found in s. Comm 52.01.

(2) **SMOKE DETECTORS [A17.1 211.3b].** This is a department rule in addition to the requirements of A17.1 211.3b, (intro.): A lobby smoke detector, where required, shall be visible and located within 15 feet, measured horizontally, from the elevator hoistway door.

(3) **SWITCH KEYS [A17.1 211.8].** This is a department rule in addition to the requirements of A17.1 211.8: An additional set of switch keys and elevator machine room keys for use by the fire department, police department, or other authorized personnel shall be kept in a metal box mounted in a conspicuous location at the designated floor or other approved level. The box shall have

a lock-type cover, which can be opened by the fire department, police department, or other authorized personnel.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### Part 3—Hydraulic Elevators

**Comm 18.32 Hoistways, hoistway enclosures, and related construction [A17.1 300].** (1) **BOTTOM CAR CLEARANCE [A17.1 300.8a].** These are department rules in addition to A17.1 300.8a:

(a) *Pit Clearance.* Where existing pits are used, the bottom car clearance shall be a minimum of 24 inches, however the minimum runby may be reduced as determined by the department.

(b) *Refuge space.* Refuge space shall be outlined in contrasting colors and be identified "REFUGE SPACE" by 2-inch high letters marked on the pit floor.

(2) **REFUGE SPACE ON TOP OF CAR ENCLOSURE [A17.1 300.8g].** These are department rules in addition to the requirements of A17.1 300.8g: The refuge space shall be identified "REFUGE SPACE" by 2-inch high letters marked on top of the car enclosure.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.33 Installation below ground [A17.1 302.3h].** (1) **MONITORED CATHODIC PROTECTION [A17.1 302.3h (1)].** This is a department rule in addition to the requirements of A17.1 302.3h (1): A17.1 302.3h (1) shall not be permitted to be used as a single means of protection.

(2) **PROTECTION OF CYLINDER [A17.1 302.3h (2)].** Substitute the following wording for A17.1 302.3h (2): A protective coating immune to galvanic or electrolytic action, salt water, and other known underground conditions, which completely surrounds the exterior surface of a cylinder and will withstand the installation process.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.34 Anti-creep operation [A17.1 306.3a].** Substitute the following wording for A17.1 306.3a (2): It shall maintain the car within 1/2 inch of the landing irrespective of the position of the hoistway door and shall comply with ch. Comm 69 and ADAAG 4.10.2

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.35 Accessibility requirements for elevators.** (1) **NEW ELEVATORS.** All new elevators shall comply with the accessibility requirements specified in ch. Comm 69, ADAAG 4.10 and ADAAG 4.13.

(2) **ALTERED ELEVATORS.** All altered elements of existing elevators shall comply with the applicable requirements specified in ch. Comm 69, ADAAG 4.1.6 and ADAAG 4.10.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

### Part 4—Power Sidewalk Elevators

Note: There are no changes, additions or omissions to A17.1 Part 4.

### Part 5—Private Residence Elevators

**Comm 18.36 Scope [A17.1 Part V].** Substitute the following wording for the A17.1 Part 5 Scope: A17.1 Part 5 residential elevators complying with this part and as modified in ss. Comm 18.361 to 18.41 may only be installed as specified in ch. Comm 69.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.361 Hoistways, hoistway enclosures and related construction [A17.1 500].** (1) **HOISTWAY ENCLOSURE CONSTRUCTION [A17.1 500.1].** (a) Substitute the following wording for A17.1 500.1, first paragraph, last sentence: The fire-resistive rating shall be in accordance with the requirements of A17.1 100.1.

(b) Section A17.1 500.1 (a) to (d) does not apply.

(2) **PITS [A17.1 500.2].** This is a department rule in addition to the requirements of A17.1 500.2: A level pit with a depth not less than 12 inches shall be provided, or bottom car clearances complying with A17.1 2500.8b shall be provided.

(3) **TOP CAR CLEARANCE [A17.1 500.3].** Substitute the following wording for A17.1 500.3: The top car clearance shall not be less than 24 inches when the elevator reaches its maximum mechanical upward limit of travel, or the requirements specified in A17.1 2500.8d shall be provided.

(4) **PROTECTION OF HOISTWAY OPENINGS [A17.1 500.4].** This is a department rule in addition to the requirements of A17.1 500.4: As used in this part, hoistway gates are prohibited.

(5) **PIPES IN HOISTWAYS [A17.1 500.5].** Substitute the following wording for A17.1 500.5: An installation of a pipe or duct conveying gases, vapors or liquids in a hoistway, machine room or machinery space shall comply with A17.1 102.2.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.362 Cars [A17.1 501].** (1) **CAR FRAMES AND PLATFORMS [A17.1 501.1].** This is a department rule in addition to the requirements of A17.1 501.1: A car platform shall be protected against fire as specified in A17.1 203.8.

(2) **CAR ENCLOSURE [A17.1 501.2].** These are department rules in addition to the requirements of A17.1 501.2:

(a) A car enclosure shall comply with A17.1 204.1f and 204.2.

(b) A handrail shall be provided and it shall comply with s. Comm 69.275 (1).

(3) **CAR DOORS AND GATES [A17.1 501.4].** (a) *Construction [A17.1 501.4 intro].* Substitute the following wording for A17.1 501.4 intro paragraphs: A car door or gate which, when closed, shall guard the full entrance opening and shall be provided at each entrance to the car. Car doors and collapsible car gates shall be of a solid design.

(b) *Power operation of car doors and gates [A17.1 501.4a].* Substitute the following wording for A17.1 501.4a: A car door or gate shall be power-opening and power-closing and shall comply with the requirements of A17.1 112.3, 112.4, 112.5 and 112.6.

(c) *Car door or gate locking devices [A17.1 501.4b].* Substitute the following wording for A17.1 501.4b: Hoistway enclosures shall be continuous for the full travel of the car.

(4) **LIGHT IN CAR [A17.1 501.5].** Substitute the following wording for A17.1 501.5: Lights in cars shall comply with A17.1 204.7.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.363 Location and guarding of counterweights [A17.1 502.2].** Substitute the following wording for A17.1 502.2: Counterweights shall be located in the hoistway of the elevator, which they serve. Where the space below the hoistway is not permanently secured against access, counterweights shall comply with A17.1 109.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.364 Buffers and buffer supports [A17.1 505.1].** Substitute the following wording for A17.1 505.1 (c): Bumpers or buffers shall be provided in accordance with A17.1 2501.2.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.365 Screw machines [A17.1 506.4].** Substitute the following wording for A17.1 506.4: Screw machines, where used, shall conform to the requirements of A17.1 1804, except that the rated speed shall not exceed 30 feet per minute.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.366 Operating devices and control equipment [A17.1 508].** (1) **KEY-OPERATED SWITCHES [A17.1 508.3].** Substitute the following wording for A17.1 508.3: Car controls

shall comply with ch. Comm 69, ADAAG 4.10.12. A key switch may be used for any car entrance that is exterior to the building.

(2) **EMERGENCY STOP SWITCH** [A17.1 508.7]. Substitute the following wording for A17.1 508.7:

(a) On a private residence elevator, a switch, which will stop the car at any speed, shall not be located within the car.

(b) A stop switch shall be provided on top of the car and shall comply with A17.1 210.2 (h).

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.367 Emergency signal** [A17.1 509.1]. Substitute the following wording for A17.1 509.1: Emergency signal devices shall comply with A17.1 211.1.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.368 Limitation of load, speed and rise** [A17.1 510]. (1) **CAPACITY** [A17.1 510.1]. Substitute the following wording for A17.1 510.1: The rated load shall be at least 650 pounds or 40 pounds per square foot with a maximum load of 750 pounds. The net platform area shall not exceed 18 square feet and shall have a minimum clear width of 32 inches and a minimum clear length of 54 inches.

(2) **SPEED** [A17.1 510.2]. Substitute the following wording for A17.1 510.2: The rated speed shall not exceed 30 feet per minute.

(3) **RISE** [A17.1 510.3]. Substitute the following wording for A17.1 510.3: The rise shall be less than 25 feet.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.369 Fastening of wire rope suspension means to car or to the counterweight** [A17.1 512.8]. Substitute the following wording for A17.1 512.8: The fastening of a wire rope suspension means to a car or to a counterweight shall conform to the requirements of A17.1 212.9.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.40 Private residence inclined elevators** [A17.1 513]. Substitute the following wording for A17.1 513: Private residence inclined elevators specified in A17.1 513 are not permitted in public buildings and places of employment.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.41 Accessibility features – Part 5 elevators.** A17.1 Part 5 elevators shall comply with all of the following accessibility features:

(1) **CALL BUTTONS.** Hall call shall be located 35 inches minimum and 48 inches maximum above the floor or ground, measured to the centerline of the buttons. A clear floor space or ground space complying with ch. Comm 69, ADAAG 4.2.4 that allows for a forward or parallel approach shall be provided at the hall call button. Call buttons shall be 3/4 inch minimum in their smallest dimension, and shall be raised or flush. Objects mounted beneath hall call buttons shall not project into the elevator lobby more than 4 inches.

(2) **TACTILE CHARACTERS ON HOISTWAY ENTRANCES.** Raised and Braille characters identifying each floor level shall comply with ch. Comm 69, ADAAG 4.10.5.

(3) **DOORS.** (a) *General.* Doors to A17.1 Part 5 elevators shall comply with all of the following:

1. Doors shall provide a clear width of 32 inches minimum and shall comply with ch. Comm 69, ADAAG 4.13.5.

2. Hoistway doors shall not obstruct the required exit passageway specified in the building code.

3. Door timing for hall calls and door delays for car calls shall comply with ch. Comm 69, ADAAG 4.10.7 and ADAAG 4.10.8.

(b) *Power-opening hoistway doors.* Except as specified in par. (c), hoistway doors shall be low energy power-operated door complying with the standard adopted in s. Comm 69.29 (3). Power-opening doors shall not swing into the clear floor space required for the operation of the door-opening control button.

(c) *Manual-opening hoistway doors.* Hoistway doors may be manual-opening and self-closing providing the hoistway doors and maneuvering clearances are designed in accordance with all of the following:

1. When a person enters and exits a car from the same side of the car, the minimum maneuvering clearances at the pull-side of the hoistway door shall be provided. The maneuvering clearances shall comply with ch. Comm 69, ADAAG 4.13, Figure 25 (a) for the pull side of swinging doors with a front approach.

2. When a person enters on one side of a car and exits on the opposite side of the car, the minimum clearances at the pull-side of the hoistway door shall comply with ch. Comm 69, ADAAG 4.13, Figure 25 for the pull side of doors.

3. Manual door operation shall comply with ch. Comm 69, ADAAG 4.13.10 and 4.13.11.

(4) **DOOR PROTECTIVE AND REOPENING DEVICE.** A17.1 Part 500 elevators with automatic horizontally sliding doors or gates shall comply with ch. Comm 69, ADAAG 4.10.6.

(5) **FLOOR OR GROUND SURFACES.** Floor or ground surfaces shall comply with ch. Comm 69, ADAAG 4.5.

(6) **ILLUMINATION LEVELS.** Illumination levels shall comply with ch. Comm 69, ADAAG 4.10.11.

(7) **CAR CONTROLS.** Car controls shall comply with ch. Comm 69, ADAAG 4.10.12, except the location of the controls shall be on a side wall.

(8) **EMERGENCY COMMUNICATIONS.** Emergency communications systems shall comply with ch. Comm 69, ADAAG 4.10.14.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.415 Anti-creep leveling devices** [A17.1 514.4]. Substitute the following wording for A17.1 514.4 (a): It shall comply with ch. Comm 69, ADAAG 4.10.2.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### Part 6—Hand Elevators

Note: There are no changes, additions or omissions to A17.1 Part 6.

#### Part 7—Hand and Power Dumbwaiters

**Comm 18.43 Hoistways, hoistway enclosures, and related construction** [A17.1 700]. (1) **CONSTRUCTION OF HOISTWAYS AND HOISTWAY ENCLOSURES** [A17.1 700.1]. This is a department rule in addition to the requirements of A17.1 700.1: A17.1 100.6 does not apply.

(2) **HORIZONTAL CAR AND COUNTERWEIGHT CLEARANCES** [A17.1 700.9]. This is a department rule in addition to the requirements of A17.1 700.9: A17.1 108.1d applies except when a counterbalanced car door is provided. The clearance shall be measured between the landing side of the car door sill and the hoistway edge of any landing sill, or the hoistway side of any vertically sliding counterweighted or counterbalanced hoistway door or of any vertically sliding counterbalanced biparting hoistway doors.

(3) **PROTECTION OF HOISTWAY-LANDING OPENINGS** [A17.1 700.11]. (a) *Location of hoistway-door openings* [A17.1 700.11d]. Section A17.1 700.11d does not apply.

(b) *Hoistway-access doors* [A17.1 700.11e]. This is a department rule in addition to A17.1 700.11e: Hoistway access door panels for power dumbwaiters shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(c) *Hoistway-door vision panels* [A17.1 700.11h]. Substitute the following wording for A17.1 700.11h: Vision panels not less than 4 square inches nor more than 12 square inches shall be provided in hoistway doors where position indicators are not provided. Vision panels shall be 1/4-inch clear wire glass mounted substantially flush with the surface of the landing side of the door.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### Part 8—Escalators

Note: There are no changes, additions or omissions to A17.1 Part 8.

**Part 9—Moving Walks**

Note: There are no changes, additions or omissions to A17.1 Part 9.

**Part 10—Routine, Periodic and Acceptance Inspections and Tests**

**Comm 18.48 Routine, periodic, and acceptance inspections and tests [A17.1 1000.1].** (1) PERSONS AUTHORIZED TO MAKE INSPECTIONS AND TESTS [A17.1 1000.1]. Substitute the following wording for A17.1 1000.1: Elevator inspectors shall be certified in accordance with s. Comm 5.64.

(2) ROUTINE INSPECTION AND TESTS [A17.1 1000.1a]. Substitute the following wording for the requirements of A17.1.1000.1a:

(a) *Inspection.* Routine inspections and tests shall be made by a staff person of the department or a certified inspector.

(b) *Reinspection.* Equipment found to be in noncompliance will be reinspected as determined by the inspector to obtain compliance with the provisions of this chapter.

(c) *Inspection report.* An inspection report shall be filed with the department, on a form approved by the department, within 10 business days after the inspection. The report shall identify items of noncompliance. Every item which is listed on the inspection report as being out of compliance with this chapter shall be corrected on or before the compliance date stated on the report.

(d) *Compliance with orders.* If a certified inspector is unable to obtain compliance with this chapter, the inspector shall notify the department. If it becomes necessary for the department to conduct inspections, a fee in accordance with s. Comm 2.15 will be charged for each inspection.

(3) PERIODIC INSPECTION AND TESTS [A17.1 1000.1b]. Substitute the following wording for A17.1 1000.1b (3): Periodic inspections and tests shall be performed by persons possessing a minimum of 2 years of elevator construction, elevator service or elevator inspection experience. Proof of experience qualifications shall be submitted to the department upon request. The department may require witnessing of inspections and tests or retests.

(4) ACCEPTANCE INSPECTION AND TESTS [A17.1 1000.1c]. The following are department rules in addition to A17.1 1000.1c:

(a) *New Installations.* 1. New installations shall be tested and inspected by a staff person of the department or an authorized representative of the department or municipality who has received a letter of authorization from the department to determine whether or not the installations comply with the conditionally approved plans and the provisions of this chapter. The installations shall not be placed in service until authorized by the department or municipality.

2. The department shall be notified at least 10 business days prior to the time the new installation will be complete and ready for inspection.

3. A representative of the company installing the equipment shall be present during the tests and inspections specified in subd. 1.

4. All new equipment, as specified in s. Comm 18.17 (1), shall be assigned a registration number by the department or municipality. The registration number shall be located as follows:

- a. Elevators: on the car crosshead or at locations readily visible;
- b. Dumbwaiters: in or on the car structure;
- c. Escalators, moving walks: in the machine space at locations visible from the access opening; and
- d. Other equipment: at locations readily visible.

(b) *Alterations.* Every alteration specified in s. Comm 18.09 (2), shall be inspected as determined by the department or municipality.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.49 Applicability of inspection and test requirements [A17.1 1000.2].** (1) NEW AND EXISTING INSTALLATIONS [A17.1 1000.2 (a) AND (b)]. Substitute the following wording for A17.1 1000.2 (a) and (b): All new and existing installations and alterations shall comply with the provisions of ch. Comm 18 in effect on the contract date.

(2) EXEMPTION [A17.1 1000.2 (c)]. The requirements of A17.1 1000.2 (c) do not apply.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.50 Inspection and test periods [A17.1 1001.1].** Substitute the following wording for A17.1 1001.1: The routine inspection and tests of passenger and freight electric elevators shall be made at intervals not longer than one year.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.52 Periodic inspection and tests of passenger and freight elevators [A17.1 1002].** (1) INSPECTION AND TEST PERIODS [A17.1 1002.1]. Substitute the following wording for A17.1 1002.1: In addition to the routine inspections and tests specified under A17.1 1001.2, the inspections and tests specified in A17.1 1002.3 shall be made at intervals not longer than 5 years.

(2) ONE-YEAR INSPECTION AND TEST REQUIREMENTS [A17.1 1002.2]. The following rules of A17.1 1002.2 do not apply: 1002.2a Oil Buffers, 1002.2b Safeties, and 1002.2g Standby Power Operation.

(3) FIVE-YEAR INSPECTION AND TEST REQUIREMENTS [A17.1 1002.3]. (a) *Safety and governor systems [A17.1 1002.3a].* Substitute the following wording for the first sentence of A17.1 1002.3a (intro.): Types A, B and C car safeties and their governors shall be tested with rated load in the car.

(b) *Reports on department form.* This is a department rule in addition to the last paragraph of A17.1 1002.3a (2): Reports of tests as specified in A17.1 1002.3a shall be submitted to the department with complete information on form SBD-2E.

Note: Copies of the safety test report form SBD-2E are available at no charge from the Safety and Buildings Division, P.O. Box 2509, Madison, Wisconsin 53707 or telephone (608) 266-1818 or TTY (608) 264-8777.

(c) *Exemptions.* The following rules of A17.1 1002.3 do not apply: 1002.3c Oil Buffers, 1002.3d Brakes, and 1002.3e Standby Power Operation.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.54 Routine inspection and tests of passenger and freight hydraulic elevators [A17.1 1004.1].** Substitute the following wording for A17.1 1004.1: The routine inspection and tests of passenger and freight hydraulic elevators shall be made at intervals not longer than one year.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.55 Periodic inspection and tests of passenger and freight hydraulic elevators [A17.1 1005].**

(1) INSPECTION AND TEST PERIODS [A17.1 1005.1]. Substitute the following wording for A17.1 1005.1: Testing of the relief valve setting is not required unless the relief valve setting is altered or if the seal is broken. If the relief valve setting is altered or if the seal is broken, A17.1 303.4b shall apply.

(2) ADDITIONAL INSPECTIONS AND TESTS [A17.1 1005.2c]. A17.1 1005.2c (4) does not apply.

(3) THREE-YEAR INSPECTION AND TEST REQUIREMENTS [A17.1 1005.3]. Section A17.1 1005.3 does not apply.

(4) FIVE-YEAR INSPECTION AND TEST REQUIREMENTS [A17.1 1005.4]. A17.1 1005.4 does not apply to oil buffers.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.58 Inspections and test periods [A17.1 1007.1].** Substitute the following wording for A17.1 1007.1: The routine inspection and tests of escalators and moving walks shall be made at intervals not longer than one year.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.59 Inspection and tests of other equipment [A17.1 1010].** (1) **SIDEWALK ELEVATOR [A17.1 1010.1].** Substitute the following wording for A17.1 1010.1 second sentence: Routine inspections shall be performed at intervals not longer than one year.

(2) **PRIVATE RESIDENCE ELEVATORS AND LIFTS [A17.1 1010.2].** This is a department rule in addition to the requirements of A17.1 1010.2: Private residence lifts as specified in A17.1, Part 21 are prohibited installations in public buildings and places of employment and are not subject to the inspections specified in A17.1 1010.2.

(3) **HAND ELEVATORS [A17.1 1010.3].** Substitute the following wording for A17.1 1010.3 second sentence: Routine inspections shall be performed at intervals not longer than one year.

(4) **SPECIAL PURPOSE PERSONNEL ELEVATORS [A17.1 1010.6].** Substitute the following wording for A17.1 1010.6 second sentence: Routine inspections shall be performed at intervals not longer than one year.

(5) **INCLINED ELEVATORS [A17.1 1010.7].** Substitute the following wording for A17.1 1010.7 second sentence: Routine inspections shall be performed at intervals not longer than one year.

(6) **WHEELCHAIR LIFTS [A17.1 1010.10].** Substitute the following wording for A17.1 1010.10: Routine inspections for vertical and inclined platform lifts shall be performed at intervals not longer than one year. Inspections of stairway chairlifts shall be performed at intervals not longer than three years.

(7) **ROOFTOP ELEVATORS [A17.1 1010.11].** Substitute the following wording for A17.1 1010.11: Routine inspections shall be performed at intervals not longer than 1 year.

(8) **RACK AND PINION ELEVATORS [A17.1 1010.12].** Substitute the following wording for A17.1 1010.12: Routine inspections shall be performed at intervals not longer than one year.

(9) **LIMITED-USE, LIMITED-APPLICATION ELEVATOR [A17.1 1010.13].** Substitute the following wording for the requirements of A17.1 1010.13. Routine inspections shall be performed at intervals not longer than one year.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 11—Engineering and Type Tests**

Note: There are no changes, additions or omissions to A17.1 Part 11.

#### **Part 12—Alterations, Repairs, Replacements and Maintenance**

#### **Comm 18.62 General requirements [A17.1 1200].**

(1) **CONFORMANCE WITH SAFETY CODE FOR EXISTING INSTALLATIONS [A17.1 1200.1].** A17.1 1200.1 does not apply.

(2) **SPlicing AND REPLACEMENT OF SUSPENSION ROPES [A17.1 1200.4d].** These are department rules in addition to the requirements of A17.1 1200.4d:

(a) When ropes are replaced, the replacement ropes shall be the same as those specified by the original elevator manufacturer or shall be of an equivalent strength, weight and design.

(b) The ropes of a given set shall be from the same manufacturer and of the same material, grade, construction and diameter.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.63 Requirements for alterations [A17.1 1202 and 1203].** (1) **INCREASE OR DECREASE IN TRAVEL [A17.1 1202.10a AND 1203.4a].** This is a department rule in addition to the requirements of A17.1 1202.10a and A17.1 1203.4a: Where the alteration involves an increase or decrease in travel and the final travel exceeds the heights specified in A17.1 211.3, the applicable requirements of A17.1 211.3 shall be complied with.

(2) **ADDITION OF EMERGENCY RECALL AND EMERGENCY IN-CAR OPERATION [A17.1 1202.13 AND 1203.8h].** These are department rules in addition to the requirements of A17.1 1202.13 and 1203.8h: Where phase I and II operation is installed, the installation shall conform to the following requirements:

(a) The phase I and II operation shall conform to the requirements of A17.1 211.3.

(b) Emergency stop switches on passenger elevators, if provided in the car, shall be removed.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.64 Making safety devices inoperative [A17.1 1206.4].** This is a department rule in addition to the requirements of A17.1 1206.4: Nonrequired safety-related devices installed on elevators or related equipment shall comply with the applicable provisions of this chapter.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 13—Design Data and Formulas**

Note: There are no changes, additions or omissions to A17.1 Part 13.

#### **Part 14—Material Lifts and Dumbwaiters with Automatic Transfer Devices**

Note: There are no changes, additions or omissions to A17.1 Part 14.

#### **Part 15—Special Purpose Personnel Elevators**

Note: There are no changes, additions or omissions to A17.1 Part 15.

#### **Part 16—Rack and Pinion Elevators**

Note: There are no changes, additions or omissions to A17.1 Part 16.

#### **Part 17—Inclined Elevators**

Note: There are no changes, additions or omissions to A17.1 Part 17.

#### **Part 18—Screw-Column Elevators**

Note: There are no changes, additions or omissions to A17.1 Part 18.

#### **Part 19—Elevators Used for Construction**

**Comm 18.67 Operation and operating devices [A17.1 1901.2].** This is a department rule in addition to the requirements of A17.1 1901.2: All elevators shall have an assigned operator while in use.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 20—Inclined Stairway Chairlifts, and Inclined and Vertical Wheelchair Lifts**

**Comm 18.68 Scope [A17.1 Part 20 Scope].** Substitute the following wording for Part 20 Scope: This part applies to vertical wheelchair lifts, inclined wheelchair lifts and stairway chairlifts. Vertical wheelchair lifts, inclined wheelchair lifts and stairway chairlifts may only be used to provide accessibility between floor levels as permitted in ch. Comm 69.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Comm 18.69 Vertical wheelchair lifts [A17.1 2000].**

(1) **RUNWAY ENCLOSURE PROVIDED [A17.1 2000.1a].** (a) **Vertical shaft [A17.1 2000.1a (1)].** This rule is in addition to the requirements of A17.1 2000.1a (1): A vertical shaft shall be designed and constructed in accordance with the building code.

(b) **Doors [A17.1 2000.1a (2) and (3)].** These rules are in addition to the requirements of A17.1 2000.1a (2) and (3): Hoistway doors and platform gates shall comply with all of the following:

1. A set of lift operating keys and a door unlocking device, which is intended for use by the fire department, police department, or other authorized personnel shall be located in a container marked "Emergency lift entry". The container shall be located adjacent to the lift on the main entrance level.

2. a. Except as specified in subd. 2. b., a vision panel shall be provided in each hoistway door and a portion of the vision panel shall be located between 40 inches and 44 inches above the floor. The vision panel shall be at least 24 square inches in size.

b. If glass is used in a rated hoistway door, the glass shall comply with s. Comm 51.048.

(c) **Running clearance [A17.1 2000.1a (6)].** Substitute the following wording for A17.1 2000.1a (6): The running clearance between the platform and entrance and exit sides shall be not less than 3/8 inch nor more than 3/4 inch. The clearance between the

platform and door glazing insets shall be not more than 1¼ inches. The shear possibility under the door header and glazing insets shall be guarded by sheet steel not less than 0.0747 inches in thickness, at an angle not less than 60 degrees nor more than 75 degrees from the horizontal. It shall be securely attached to the door.

(d) *Handrail [A17.1 2000.1a (7)].* Substitute the following wording for A17.1 2000.1a (7) the 3rd sentence: At least one handrail shall be provided extending the full length of either side guard. The handrail shall comply with s. Comm 69.275 (1).

(2) **RUNWAY ENCLOSURE NOT PROVIDED [A17.1 2000.1b].** (a) *Handrail [A17.1 2000.1b (7)].* Substitute the following wording for A17.1 2000.1b (7) the 3rd sentence: At least one handrail shall be provided extending the full length of either side guard. The handrail shall comply with s. Comm 69.275 (1).

(3) **LOWER LEVEL ACCESS RAMPS AND PITS [A17.1 2000.1e].** Substitute the following wording for A17.1 2000.1e: Pits are not required. If a pit is not provided, any difference in elevation between the floor of the platform lift and the floor level of the building shall be overcome by ramps complying with ch. Comm 69, ADAAG 4.8.

(4) **PLATFORM SIZE [A17.1 2000.6c].** Substitute the following wording for A17.1 2000.6c:

(a) *Size of platform.* Except as specified in par. (b), the net platform area for platform lifts shall not exceed 18 square feet with a minimum clear width of 32 inches and a minimum clear length of 54 inches.

(b) *Side entrance platforms.* The net platform area for platform lifts with side doors shall have not more than 18 square feet with a minimum clear width of 39 inches and minimum clear length of 60 inches.

(5) **LIMITATION OF LOAD, SPEED AND TRAVEL [A17.1 2000.7a].** Substitute the following wording for A17.1 2000.7a: A vertical wheelchair lift shall comply with the following:

(a) *Rated load.* The rated load shall be 750 lbs.

(b) *Sustaining and lowering a load.* The lift shall be capable of sustaining and lowering a load as specified in A17.1 207.1.

(c) *Rated speed.* The rated speed shall not exceed 30 feet per minute.

(d) *Travel distance.* The travel shall not exceed 12 feet.

(e) *Number of stops.* The lift may have more than 2 stops.

(f) *Floor penetration.* A vertical platform lift may penetrate one floor providing the design and construction of the hoistway complies with chs. Comm 50 to 64 for vertical shaft requirements. To eliminate shear and pinch points, the lift shall be enclosed in a shaft that is continuous from the lowest landing to a minimum height of 42 inches above the upper landing. The lift shall comply with A17.1 2000.1a.

(6) **ATTENDANT OPERATION [A17.1 2000.10b].** [Substitute the following wording for A17.1 2000.10b] Attendant operation is prohibited.

(7) **EMERGENCY SIGNALS [A17.1 2000.11].** Substitute the following wording for A17.1 2000.11: If a lift is installed in an area not visible to personnel at all times, emergency signaling devices shall be provided in accordance with the requirements of A17.1 211.1(a) and 211.1(b). An emergency stop switch may also be used as an emergency signaling device provided the emergency stop switch complies with all of the following:

(a) Complies with the requirements specified in A17.1 210.2 (e).

(b) Marked also as an alarm with a sign stating "ALARM".

(c) Illuminates when activated.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.74 Accessibility features – vertical platform lifts.** A vertical platform lift shall be designed with all of the following accessibility features:

(1) **CALL BUTTONS.** Hall call buttons shall be located 35 inches minimum and 48 inches maximum above the floor or ground, measured to the centerline of the buttons. A clear floor space or ground space complying with ch. Comm 69, ADAAG 4.2.4 that allows a forward or parallel approach shall be provided at the hall call button. Call buttons shall be ¾ inch minimum in their smallest dimension, and shall be raised or flush. Objects mounted beneath hall call buttons shall not project into the elevator lobby more than 4 inches.

(2) **FLOOR IDENTIFICATION.** Raised and Braille characters identifying each floor level shall comply with ch. Comm 69, ADAAG 4.30.4 for platform lifts with gates and ADAAG 4.10.5 for platform lifts with full-height doors.

(3) **DOORS.** (a) *General.* Doors or gates shall not obstruct the required exit passageway specified in the building code.

(b) *End doors or gates.* End doors or gates shall comply with all of the following:

1. Doors or gates shall provide a clear width of 32 inches minimum and shall comply with ch. Comm 69, ADAAG 4.13.5.

2. Except as specified in subd. 3., vertical platform lifts shall have low energy power-operated end doors or gates complying with the standard adopted in s. Comm 69.29 (3) and ADAAG 4.10.8. Power-opening doors or gates shall not swing into the clear floor space required for the operation of the door-opening control button.

3. Door or gates may be manual-opening and self-closing provided the doors or gates and the maneuvering clearances are designed in accordance with all of the following:

a. When a person enters and exits a car from the same side of the car, the minimum maneuvering clearances at the pull-side of the hoistway door or gates shall be provided. The maneuvering clearances shall comply with ch. Comm 69, ADAAG 4.13, Figure 25 (a) for the pull side of swinging doors with a front approach.

b. When a person enters on one side of a car and exits on the opposite side of the car, the minimum clearances at the pull-side of the hoistway door or gate shall comply with ch. Comm 69, ADAAG 4.13, Figure 25 for the pull side of doors.

c. The door or gate operation shall comply with ADAAG 4.13.10 and 4.13.11.

(c) *Side hoistway doors.* Side entrance doors or gates to platform lifts shall comply with all of the following:

1. Doors or gates shall provide a clear width of 42 inches minimum.

2. Doors or gates shall be low energy power-operated doors or gates complying with the standard adopted in s. Comm 69.29 (3).

3. Doors or gates shall not swing into the clear floor space required for the operation of the door-opening control button.

4. Maneuverability space shall be provided at side doors or gates to vertical platform lifts and the space shall comply with ch. Comm 69, ADAAG 4.13.

5. Door or gate timing for hall calls and door delays for car calls shall comply with ADAAG 4.10.7 and ADAAG 4.10.8.

(4) **FLOOR OR GROUND SURFACES.** Floor or ground surfaces shall comply with ch. Comm 69, ADAAG 4.5.

(5) **ILLUMINATION LEVELS.** Illumination levels shall comply with ch. Comm 69, ADAAG 4.10.11.

(6) **EMERGENCY COMMUNICATIONS.** Emergency communications systems shall comply with ch. Comm 69, ADAAG 4.10.14.  
History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.75 Inclined wheelchair lifts [A17.1 2001].**

(1) **RUNWAYS [A17.1 2001.1a].** (a) *Means of egress [A17.1 2001.1a].* Substitute the following wording for A17.1 2001.1a: When an inclined platform lift is installed in an exit stairway, the minimum exit width required for the stairway under the building code shall be provided in addition to the space for the installed lift

in its operational position. The clear width of a stairway shall be measured from the side of the inclined platform lift guard, in its operational position, to the nearest edge of the opposite handrail or stringer.

(b) *Clearances* [A17.1 2001.1b]. These are department rules in addition to the requirements of A17.1 2001.1b:

1. Guarding shall be provided to comply with all of the following:

a. Solid guarding shall be provided between the lift runway and the stairway usable by pedestrians.

b. The guarding shall have no openings and shall be of sufficient height to prevent any pinching or shearing points.

c. On a stairway having less than 24 inches of clear space for pedestrians, the guarding shall be continuous so that pedestrians cannot use the stairway.

2. a. Except as specified in subd. 2. b., a minimum overhead clearance of 6 feet 8 inches shall be provided between any point on the platform and the lowest overhead obstruction during the entire distance of travel.

b. The overhead clearance may be reduced to 5 feet along the inclined portion of the stairs provided the lift has a permanently attached folding seat for users. A sign shall be posted explaining that users of the unit must be seated while the unit is in operation.

(2) CARS AND PLATFORMS [A17.1 2001.6]. (a) *Construction* [A17.1 2001.6a]. Substitute the following wording for A17.1 2001.6a (2): The platform area of a lift shall have a minimum clear width of 32 inches and a minimum clear length of 54 inches. The net inside platform area shall not exceed 18 square feet.

(b) *Platform guarding* [A17.1 2001.6c]. 1. Substitute the following wording for A17.1 2001.6c introductory paragraph: Platform guarding shall be in accordance with A17.1 2001.6c (1).

2. a. This is a department rule in addition to the requirement of A17.1 2001.6c (2): The first sentence of A17.1 2001.6c (2) does not apply.

b. Substitute the following wording for A17.1 2001.6c (2), second paragraph: A retractable metal guard at least 6 inches high shall be provided on the upper access end for units complying with A17.1 2001.6c (1) and (2). When in use, the incline of the ramp shall comply with ch. Comm 69, ADAAG 4.5 and ADAAG 4.8.

(3) CAPACITY, LOAD, SPEED, AND ANGLE OF INCLINATION [A17.1 2001.7]. These are department rules in addition to the requirements of A17.1 2001.7:

(a) *Limitation on travel*. An inclined platform lift shall be limited to serve 3 stops and 2 consecutive stories.

(b) *Visibility*. The lift shall be visible from all landing control stations during its entire length of travel.

(c) *Rated load*. The rated load shall be 750 pounds.

(4) ATTENDANT OPERATION [A17.1 2001.10b]. [Substitute the following wording for A17.1 2001.10b:] Attendant operation is prohibited.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.755 Accessibility features – inclined platform lifts.** An inclined platform lift shall be designed with accessibility features specified in s. Comm 18.74.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.80 Inclined stairway chairlifts [A17.1 2002].** (1) RUNWAYS [A17.1 2002.1]. This is a department rule in addition to the requirements of A17.1 2002.1: When a stairway chairlift is installed in an exit stairway, the minimum exit width required for the stairway under the building code shall be provided in addition to the space required for the installed chairlift in its operational position. The clear width of the stairway shall be measured from the outermost part of the lift in its operational position to the handrail or wall if a handrail is not provided.

(2) CAPACITY, SPEED, AND ANGLE OF INCLINATION [A17.1 2002.7]. These are department rules in addition to the requirements of A17.1 2002.7:

(a) *Limitation on travel*. An inclined stairway chairlift shall be limited to serve 3 stops and 2 consecutive stories.

(b) *Overhead clearance*. 1. Except as specified in subd. 2., a minimum overhead clearance of 6 feet 8 inches shall be provided between any point on the platform and the lowest overhead obstruction during the entire distance of travel.

2. The overhead clearance may be reduced to 5 feet along the inclined portion of the stairs.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 21—Private Residence Inclined Stairway Chairlifts, and Inclined and Vertical Wheelchair Lifts**

**Comm 18.82 Private residence lifts [A17.1 Part 21].** The entire A17.1 Part 21 does not apply.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 22—Shipboard Elevators**

**Comm 18.83 Shipboard elevators [A17.1 Part 22].** The entire A17.1 Part 22 does not apply. The building code does not apply to ships or offshore drilling rigs.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

#### **Part 23—Rooftop Elevators**

Note: There are no changes, additions or omissions to A17.1 Part 23

#### **Part 24—Elevator Safety Requirements for Seismic Risk Zone 2 or Greater**

Note: There are no changes, additions or omissions to A17.1 Part 24.

#### **Part 25—Limited-Use, Limited-Application Elevators**

**Comm 18.85 Hoistways and related construction for electric elevators [A17.1 2500].** (1) CONSTRUCTION OF HOISTWAY ENCLOSURES [A17.1 2500.1]. A17.1 2500.1 (b) does not apply.

(2) MACHINE ROOMS AND MACHINERY SPACES [A17.1 2500.2]. Substitute the following wording for A17.1 2500.2: Machine rooms shall be provided and shall comply with A17.1, Section 101, except the headroom requirement specified in A17.1, Section 101.4 shall be at least 78 inches.

(3) ELECTRICAL EQUIPMENT, WIRING, PIPES, AND DUCTS IN HOISTWAYS AND MACHINE ROOMS [A17.1 2500.3]. Substitute the following wording for A17.1 2500.3:

(a) *Equipment requirements*. Except as specified in par. (b), electrical equipment, wiring, pipes, and ducts in hoistways and machine rooms shall comply with the requirements of A17.1 Section 102.

(b) *Sprinklers installed*. Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with A17.1 211.3a and 211.3b for fire fighters' service and A17.1 211.8 for switch keys.

(4) POWER OPERATION OF HOISTWAY DOORS AND CAR DOORS AND GATES [A17.1 2500.13]. Substitute the following wording for A17.1 2500.13, introductory paragraph: Power operation, power opening, and power closing of hoistway doors and car doors and gates shall conform to the requirements of A17.1 112, except as modified by this rule.

Note: See ch. Comm 69, ADAAG 4.13 for maneuverability space at doors.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.86 Emergency operations and signaling devices for electric elevators [A17.1 2501.12].** This is a department note in addition to the requirements of A17.1 2501.12:

Note: See s. Comm 18.85 (3) (b) for fire fighters' service requirements.

History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.87 Emergency operations and signaling devices for hydraulic elevators [A17.1 2502.8].** This is a department informational note in addition to the requirements of A17.1 2502.8:

Note: See s. Comm 18.85 (3) (b) for fire fighters' service requirements.  
History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.

**Comm 18.88 Accessibility features – limited–use, limited–application elevators.** Limited–use, limited–application elevators shall comply with all of the following:

(1) **AUTOMATIC OPERATION.** Elevators shall comply with automatic operation specified in ch. Comm 69, ADAAG 4.10.2.

(2) **CALL BUTTONS.** Hall call buttons shall comply with s. Comm 69.275 (2).

(3) **HALL SIGNALS.** (a) Except as specified in par. (b), a visible and audible signal shall comply with ch. Comm 69, ADAAG 4.10.4 [and] shall be provided in the car or at the hoistway entrance to indicate the direction of travel.

(b) The requirements of ch. Comm 69, ADAAG 4.10.4 do not apply to single automatic operation elevators.

(4) **TACTILE CHARACTERS ON HOISTWAY ENTRANCES.** Raised and Braille characters identifying the floor level shall comply with ch. Comm 69, ADAAG 4.10.5.

(5) **DOORS.** (a) *Size.* Car doors shall provide a clear width of 32 inches minimum.

(b) *Type.* Elevator doors shall be either swinging or horizontally sliding type.

(c) *Operation.* Elevator doors shall open and close automatically.

1. Horizontally sliding type hoistway and car doors shall comply with ch. Comm 69, ADAAG 4.10.6.

2. Swinging hoistway and car doors shall comply with ch. Comm 69, ADAAG 4.13. Swinging doors shall be low energy power-operated and shall comply with s. Comm 69.29 (3) and ADAAG 4.10.8.

(6) **INSIDE DIMENSIONS OF ELEVATOR CAR.** Elevator cars shall provide a clear width of 32 inches minimum and a clear depth of 54 inches minimum. Car doors shall be located at the narrow ends of the car.

(7) **ILLUMINATION LEVELS.** Illumination levels shall comply with ch. Comm 69, ADAAG 4.10.11.

(8) **FLOOR OR GROUND SURFACES.** Floor surfaces shall comply with ch. Comm 69, ADAAG 4.5.

(9) **CAR CONTROLS.** Car controls shall be provided and shall comply with ch. Comm 69, ADAAG 4.10.12, except the location of the controls shall be on a side wall and a clear floor or ground space complying with ch. Comm 69, ADAAG 4.2.4 shall be provided.

(10) **EMERGENCY COMMUNICATIONS.** Emergency communications systems shall comply with ch. Comm 69, ADAAG 4.10.14.  
History: Cr. Register, November, 1999, No. 527, eff. 12-1-99.