

## DEPARTMENT OF COMMERCE

Chs. Comm 2, 18 and 69

RELATING TO: Elevators and mechanical lifting devices

LOCATION: WHEDA Bldg, Conference room #3B

DATE: Monday, March 8, 1999

TIME: 10:00 a.m.

CITY: Madison, Wisconsin[illegible]

## DEPARTMENT OF COMMERCE

Chs. Comm 2, 18 and 69

RELATING TO: Elevators and mechanical lifting devices

718 W. Clairemont Ave.

DATE: Tuesday, March 9, 1999

TIME: 11:00 a.m.

CITY: Eau Claire, Wisconsin[illegible]

## DEPARTMENT OF COMMERCE

Chs. Comm 2, 18 and 69

RELATING TO: Elevators and mechanical lifting devices

6055 N. 91<sup>st</sup> Street

DATE: Wednesday, March 10, 1999

TIME: 10:30 a.m.

CITY: Milwaukee, Wisconsin

[illegible]

**DEPARTMENT OF COMMERCE  
PUBLIC HEARING COMMENT AND AGENCY RESPONSE**

Clearinghouse No.: 99-007		Hearing Location: Madison	
Rule Number: Chapters Comm 2, 18 and 69		Hearing Date: March 8, 1999	
Relating to: Elevators and mechanical lifting devices			
Comments: Oral or Exhibit No.	Presenter, Group Represented, City and State	Comments/Recommendations	Agency Response
Oral	Lynn Wallace Wisconsin Department of Health and Family Services Division of Supportive Living 1 West Wilson Street Madison, WI 53701	<b>Comm 18.295:</b> Concerned that the stretcher-sized elevator will no longer be required in hospitals, nursing homes and hospice care facilities that are less than 4 stories in height. Feels that in a fire emergency elevators provide a better method for evacuation than the stairways. All these facilities are licensed by the Department of Health and Family Services (DHFS) and with the type of patients being cared for in these facilities, the requirement for a stretcher-sized elevator would be beneficial. Explained that medical clinics while not licensed by DHFS could benefit from a stretcher-sized elevator, especially when the clinics perform surgeries where the patients may go under general anesthetics.	<b>Agree.</b> See comment to Exhibit #6, mailed-in comments.
1	Daniel Meneguini Fire Prevention Officer Madison Fire Department Fire Prevention Division 325 W. Johnson Street Madison, WI 53703	<b>Comm 18.31 (2)</b> Indicated smoke detectors located on the exterior of buildings could set off a false alarm due to outside weather conditions. Suggested the following wording be substituted for s. 18.31 (2):  "Smoke detectors shall be installed at each elevator floor, associated elevator machine room, and, where required, elevator hoistway in compliance with the requirement in ANSI/NFPA 72 and the building code. The lobby smoke detector shall be visible and located within 15 feet, measured horizontally, from elevator lobbies. Where environmental conditions provide the potential for false alarms, an approved rate of rise heat detector shall be substituted for the required smoke detector."	<b>Agree.</b> The language in Comm 18.31 (2) should be in addition to, not replace, the language in ASME A17.1 211.3b. The ASME A17.1 211.3b language already states unenclosed landings are not required to have smoke detectors. Comm 18.31 (2) has been modified with language stating lobby smoke detectors, where required, are to be located within 15 feet measured horizontally from the elevator door. The Department will review smoke detectors located in areas with environmental concerns on a case by case basis.



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4	Patrick Bass Accessibility Equipment Manufacturers Association Metamora, IL 61561	<p><b>1. Comm 2, 18 and 69:</b> States that he is generally in support of all the proposed rules with a few specific exceptions.</p> <p><b>2. Comm 18.361 (3):</b> Feels the code should give the same recognition to top car clearances as was given to bottom car clearances on ASME A17.1 Part 5 elevators. Suggests the code be reworded to cross-reference ASME A17.1 2500.8d. Feels the requirements in this section are necessary for proper safety measures for inspectors or maintenance people. Indicated that there are numerous churches built prior to 1994 where an ASME A17.1-Part 5 elevator could be installed. However, if the 24" headroom clearance as now required in the code remains, the possibility of installing these elevators would be eliminated.</p> <p><b>3. Comm 18.75:</b> Indicates there currently is no lift manufacturer that produces a lift that meets all of the Wisconsin requirements for an inclined platform lift. Understands that the inclined platform lifts produced would not accommodate a larger electric charge with a taller or larger user of the chair. Feels the Department should continue to research and work on where inclined platform lifts with lesser constraints could be used in public buildings. Identified the following concerns for the Council to continue to research:</p> <ul style="list-style-type: none"> <li>a. Allow inclined platform lifts in required exit stairways where the unit is on a fire recall system. Indicates there are a few states that have used this type of system.</li> <li>b. Eliminate the requirement for a 42" high solid guard. Suggests the open platform with wrap around safety barrier-arms be permitted for independent use.</li> <li>c. Suggests the lift platform size should be reduced from the 32" in width and 54" in length as now required in the code. If the platform were permitted to be open there would be more room for a chair to overhang the platform. Currently, manufacturers cannot produce a platform lift that is cantilevered from an existing wall and is 32" by 54" in size.</li> </ul>		
		<p><b>1. Agree.</b></p> <p><b>2. Agree.</b> Clearances complying with ASME A17.1 2500.8d for limited-use, limited-application elevators may be used as an alternative to the 24 inch overhead clearance specified in Comm 18.361 (3).</p> <p><b>3. Agree.</b> Department recognizes the need to continue the discussion of safety requirements for inclined platform lifts. This topic will be discussed at future meetings of the Elevator Specialty Council.</p>		

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	<p>d. Reduce the platform capacity from the 750# as currently required to 450#. Understands that this again will limit access to all people with disabilities, especially larger people using larger electric chairs, but feels there are numerous existing buildings where no other means of access is possible. Stated that nationally only 1200 inclined platform lifts are sold per year.</p> <p><b>4. Comm 69.28 (2) 1. b.:</b> Feels this implies that a limited-use, limited-application (LULA) elevator could use a 90-degree door. Manufacturers have a difficult time producing this type of unit with power doors, but some have done it with manual doors. Indicates, however, that the national accessibility standard, ICC/ANSI A117.1-1998, does not permit 90-degree opening doors.</p> <p><b>5. Comm 69.28 (2) (c):</b> Indicates that ICC/ANSI A117.1 407.4.5 does not permit manual doors on any of the LULA elevators.</p> <p><b>6. A17.1 2500:</b> Indicated the proposed code may have eliminated the requirement that in LULA's, the hall signals, which state the direction a car is traveling must be both audible and visual. Explained that the ICC/ANSI A117.1 standard requires this and should also be required in the Wisconsin code.</p>	<p><b>4. Agree in part.</b> The code has been modified to permit side entrance doors on vertical platform lifts providing the doors are powered-operated and the maneuverability spaces as specified in ADAAG 4.13 is also provided. The Elevator Council will continue the discussion of developing rules for side-entrance doors to A17.1 Part 5 elevators and to limited-use, limited-application elevators.</p> <p><b>5. Agree.</b> Chapters Comm 18 and 69 have been revised to include separate accessibility requirements for ASME A17.1 Part 5 elevators, Part 20 platform lifts and limited-use, limited-application elevators. The requirements have been modified to require power-doors on the limited-use, limited-application elevators.</p> <p><b>6. Agree in part.</b> Comm 18.88 has been created to include the accessibility requirements for limited-use, limited-application elevators. The hall signals will be required to comply with ch. Comm 69, ADAAG 4.10.4 for audible and visual.</p>
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5	<p>Patrick J. Edwards Senior Commercial Access Specialist American Access Systems Kenosha, WI 53144</p>	<p><b>1. Comm 18.69 (4) (b):</b> Suggests if the requirement permitting side entrance lifts is left in the code, extensive text and illustrations should also be incorporated into the code regarding how the landing doors should in relation to the orientation of the platform and the related maneuvering space in front of the doors. However, he recommends that this item not be published in the current proposed rule until design work has been researched and documented adequately.</p> <p><b>2. Comm 18.361 (3):</b> Recommends the top clearance on ASME A17.1 Part 5 elevators installed in a place of worship be dropped. Feels there is no evidence from the extensive existence of these elevators installed throughout the states that have clearances complying with ASME A17.1 500.3 pose any hazards to the user or maintenance personnel. Included numerous letters submitted as hearing testimony at the last revision of chapter Comm 18 in 1992 when there was concern on the size and usability of ASME A17.1 500 elevators. Felt during these hearings the overhead clearance requirement was added without being realized by churches. Indicates that many churches are not providing accessibility because of the 24" overhead clearance rule.</p> <p>Explains Waupaca Elevator and Access Industries, the largest suppliers of this type of equipment, have not experienced any claims of injury or incident with this type of elevators by users, inspectors or service personnel.</p>	<p><b>1. Disagree.</b> Research of the national standard on accessibility, ICC/ANSI A17.1, indicates side-entrance doors are permitted on platform lifts. The code has been modified requiring the side entrance doors must be power-operated and, in addition, the maneuverability space required at the pull-side of doors shall be provided at these doors. Therefore, additional illustrations are not required.</p> <p><b>2. Agree.</b> Code has been changed. (See response to Exhibit #4, item #2)</p>
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		<p>Feels the overhead requirement for ASME A17.1 Part 5 elevators is unrealistic and that his repeated requests to discuss this issue were put off by the leadership of the council. Feels the council had no full-time representation of churches or the disabled community on the council and based on the letters from churches in 1992, he is making this request on behalf of people with disabilities and the churches to eliminate the overhead clearance requirement.</p> <p><b>3. Comm 18.69 (1) (b) 4. a.:</b> Suggests this section be reworded to read: "Except as specified in subd. 4. b., a vision panel shall be provided in each hoistway door and shall be at least 24 square inches in size and shall have part of its viewable area include a height 48" above the floor." The proposed language requires the vision panel to be centered at 48" which is not possible, practical or advantageous for many types of hoistway doors in use today.</p> <p><b>4. Comm 18.69 and A17.1 2000.7:</b> Recommends amending the requirement to allow 14' lifting heights for vertical lifts. The arbitrary 12' restriction in ASME A17.1 hinders the ability of the owners of existing buildings in the state to make their buildings accessible. Feels that owners can opt out of providing access when it can be shown that the cost of an elevator, the only alternative when floors are more than 12' apart, is not within the cost parameters of the accessibility requirements. Indicates the cost of a lift to travel 14' is \$15,000 compared to \$30,000 for an elevator.</p>	<p><b>3. Agree.</b> Code has been modified to require a portion of the vision panel to be within the range from 40" to 44" above the floor.</p> <p><b>4. Agree.</b> It was decided the Council should during the next code revision discuss permitting vertical platform lifts to travel 14 feet. It is suggested until the code is changed the petition for variance procedure be used to identify the safety equivalencies to travel distance.</p>
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2	<p>George A. Kappenhagen Code Consultant Schindler Elevator Co.</p>	<p><b>1. Comm 18.13 and 18.14:</b> Suggests the ASME A17.1a-1997 Addenda be adopted by reference. Feels the Addenda material eliminates outdated requirements and corrects technical errors and adds definitions that help clarify the rules. Feels including the Addenda material before the ASME A17.1-2000 edition would be beneficial.</p> <p><b>2. ASME A17.1 300.9:</b> Suggests adding additional wording to ASME A17.1 300.9 for hydraulic elevators to address the portions of above ground hydraulic jacks that are moving and stationary. Suggests the following language: "Clearance between moving portions of hydraulic jacks and stationary brackets attached to the hoistway enclosure shall have a clearance of 1/2-inch or more."</p> <p><b>3. Comm 18.25 (2):</b> Indicates Comm 18.25 (2) is a duplication of the requirements in Comm 18.35 that requires compliance with ADAAG 4.10. Suggests eliminating Comm 18.25 (2).</p> <p><b>4. Comm 18.30 (2):</b> Understands the prior prohibition of the in-car stop switch was the concern that others would use the fire service key. Feels the best way to avoid this would be to require all elevators in Wisconsin to have Designated Attendant Operation and thus another key to meet this need. Suggests eliminating the proposed wording for Comm 18.30 (2) and creating a new code section to modify ASME A17.1 211.5. Suggests the following wording: "All automatic elevators in the state shall be provided with designated attendant operation."</p>	<p><b>1. Disagree.</b> The timeframe to review the addenda material is not possible for this rule package. In the future the addenda material will be considered for adoption.</p> <p><b>2. Disagree.</b> It is recommended to leave the clearance requirements as specified in ASME A17.1 300.9. The proposed code does not address car clearances between the car and drive mechanisms. However, it was discovered the clearance requirement proposed under Comm 18.25 (1) was the same as ASME A17.1 108.1a, so Comm 18.25 (1) will be deleted.</p> <p><b>3. Agree in part.</b> It is recommended the rules be repeated because a manufacturer could design an elevator to the ASME A17.1 standard and be in conflict with the accessibility standards. To protect against noncompliance, Comm 18.25 (2) will remain.</p> <p><b>4. Agree in part.</b> It was discussed the requirement does require a door-hold open device but if one was provided it must be rendered inoperative when the elevator is under emergency operation. After research of the ASME A17.1 sections applying to this concern, Comm 18.30 (2) will be eliminated since it is adequately covered in the ASME A17.1 code.</p>
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		<p><b>5. Comm 18.34:</b> Suggests eliminating Comm 18.34 since Comm 18.35 would cover hydraulic and electric elevators.</p> <p><b>6. Comm 18.35:</b> Suggests the following wording to replace Comm 18.35: "All new elevators shall comply with the applicable accessibility requirements specified in ch. Comm 69, ADAAG 4.10 and those with manual doors shall also comply with ADAAG 4.13." Also suggests using the ICC/ANSI A117.1-1998 accessibility standard as opposed to the ADAAG standards. Indicates ICC/ANSI A117.1 includes requirements for destination oriented elevator system and limited-use, limited-application (LULA) elevators. Also identifies the following accessibility features from ICC/ANSI A17.1 that would be beneficial for the design of elevators:</p> <ul style="list-style-type: none"> <li>a. Voice announcements for all elevators running above 200 ft/min.</li> <li>b. Hall call buttons with a range from 35" to 48" above the floor.</li> <li>c. Specific sizes for symbols and Braille.</li> <li>d. Tolerance for doors to be used in federal metric construction; new allowances for car sizes</li> <li>e. Correction of the door requirement for center-opening to show 42" is needed rather than 36"</li> <li>f. New height restrictions on in-car buttons</li> <li>g. Clear references for when signage is required</li> </ul> <p>Indicates the text is clear, however, ICC/ANSI A117.1-Figure 407.2.4 should show the star to the left of the main entry level to be consistent with the car station. Indicates ICC/ANSI A117.1-Figure 407.3.5 should require a number and a letter such as "2C", since destination elevators use numbers to identify the floors and letters to identify which car.</p> <p>Indicates that the proposed ADAAG due out sometime this summer (1999) will be harmonized closely with the ICC/ANSI A117.1 standard.</p>	<p><b>5. Agree in part.</b> See response to item #3 of this same Exhibit.</p> <p><b>6. Agree in part.</b> Discussed Wisconsin will be using the accessibility requirements in the ICC/ANSI A117.1 standard when the IBC is adopted. However, until that time, the ADDAG standards are adopted as the base requirements in ch. Comm 69 and it would be very difficult to rewrite all of the applicable sections within ch. Comm 69 to be consistent with ICC/ANSI A117.1. It was suggested to modify just one section, ADAAG 4.10.3, by adding the call button reach ranges.</p>

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		<p><b>7. Comm 18.33 (1):</b> Suggests the following rewording of Comm 18.33 (1) to allow monitored cathodic protection as a secondary means when either ASME A17.1 302.3h (2) or (3) are provided as the primary means of protection: "A17.1 302.3h (1) is not permitted to be used as single means of protection. It is permitted to be provided as a secondary means when either A17.1 302.3h (2) or (3) are provided as the primary means of protection."</p> <p><b>8. Comm 18.64 (2):</b> Suggests the following wording since there is not space at the packing gland to collect any significant amount of leakage: "A drip ring or other path to a reservoir shall be provided at the packing gland of the cylinder in order to accumulate the oil leakage for later removal."</p> <p><b>9. Comm 18.18:</b> Suggests that "installations placed out of service" should include wording similar to ASME A17.1 definition that requires the suspension ropes be removed and pressure piping to be disassembled. Concerned that if these things are not done the elevators could be vandalized to become operational.</p>	<p><b>7. Agree.</b> Modified Comm 18.33 by indicating the provision for cathodic protection specified in ASME A17.1 302.3h (1) cannot be used as the only means of protection.</p> <p><b>8. Agree in part.</b> Recommended deleting s. Comm 18.64 (2) and keeping the language in ASME A17.1 302.3g since this wording adequately describes collection and removal of oil.</p> <p><b>9. Disagree.</b> Felt the current methods to place an elevator out of service provides adequate safety to the users of the equipment rather than removing suspension ropes and disassembling pressure piping. The code definition will remain as proposed.</p>

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3	<p>George L. Nyborg III Tri-State Elevator Co., Inc. Pelham, New York 10803</p>	<p>Indicates he is in favor of the proposed changes with the following 2 exceptions:</p> <p><b>1. Comm 18.08 (2):</b> Identifies the following concerns with this requirement:  a. Feels the intent of the accident reporting needs to be clarified.  Indicates an injury may occur by deliberate misuse, vandalism or carelessness and there is really no "failure" of the installation.  Questions whether this type of accident should be reported.  b. Questions who will determine when an elevator is "safe" to use and what will determine the elevator "safe" to use, correcting only the cause of the accident.  c. Feels the wording prohibiting the removal of damaged parts should be clarified.</p> <p><b>2. Comm 18.48 (1):</b> Feels the state should mandate all inspectors be QEI certified. Identifies organizations that can provide courses of instruction and testing.</p>	<p><b>1. Agree.</b> The wording has been changed clarifying the Department will "authorize when an installation is to be placed back in service" and clarifying the accident reporting is required when the mechanical equipment fails and a person requires immediate medical attention.</p> <p><b>2. Agree in part.</b> Wisconsin already requires inspectors to be credentialed as an elevator inspector in accordance with Comm 5, Credentialing Code and permits QEI certification in lieu of the state certification.</p>
6	<p>Gregg A. Cleveland, Pres. Wisconsin State Fire Chiefs Association Milwaukee, WI 53201</p>	<p><b>Comm 18.295:</b> Opposes to the elimination of the stretcher-sized elevator to be provided in all healthcare facilities and medical clinics, regardless of the number of stories. Explains their rationale is that many of our Departments operate ambulance services and attempting to bring patients down from over one-story can be a very time consuming and difficult activity. Having access to an elevator for patient transportation saves time and injuries to fire fighters. Requests that at least one elevator be required that can accommodate a stretcher for all healthcare or medical clinics more than one-story in height.</p>	<p><b>Agree.</b> Recommended keeping our current requirement that all healthcare facilities, including medical clinics, must have a stretcher-sized elevator. However, an exception for existing buildings or facilities where it is not possible to install a stretcher size elevator will be included in the code. Definitions for "healthcare facility" and "medical clinic" have been included for clarity.</p>



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7	<p>Henry Fuchs Vice President of Engineering Services Northwestern Elevator Co. Milwaukee, WI 53209-0976</p>	<p><b>Comm 18.55</b> Proposes an end date to Comm 18.55 that requires testing of the relief valve setting. Suggests a 3 to 5 year period as a method of phasing in the change to the ASME. Feels the phase-in of the testing, would allow owners to prepare for this change, and would allow for the training of additional people to perform these tests..</p>	<p><b>Agree in part.</b> The current language will remain as written. The current rule requires testing of relief valves only when the relief valve setting is altered or if the seal is broken.</p>
8	<p>Michael J. Fuerst Saeffite Elevator Company Brown Deer, WI 53223</p>	<p><b>1. A17.1 500 elevators:</b> Knows that companies must conform to ANSI and ADAAG codes, but states we must try not to eliminate anybody by creating "expensive code restrictions."</p> <p><b>2. Comm 18.361 (2):</b> Recommends the minimum pit depth of 12 inches remain ASME A17.1 Part 5 elevators.</p> <p><b>3. Comm 18.361 (3):</b> Feels code should not require the extra space at the top or bottom of ASME A17.1 Part 5 elevators since they have key releases at each opening. Recommends a stop switch or "panic bar stop" in lieu of the top of car clearances. Indicates that dumbwaiters are smaller yet and don't require this extra space. Recommends that s. 18.361 (3) should read as the 1996 ASME code with the following modification: "top car clearance should be made as most possible without modification to existing building structure."</p>	<p><b>1. Agree</b> Code is being revised to allow ASME A17.1 Part 5 elevators to comply with alternative requirements for bottom and top car clearances. (See comments in items #2. and 3. of this Exhibit)</p> <p><b>2. Agree.</b> For safety reasons for installation of ASME A17.1 Part 5 elevators, a pit depth specified in either ASME A17.1 107 or A17.1 2500.8b will be permitted. This provides safety for inspectors and maintenance personnel as well flexibility in compliance alternatives.</p> <p><b>3. Agree in part.</b> Code has been changed. (See Exhibit #4, Item #2.)</p>

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		<p><b>4. Comm 18.364:</b> Indicates this section permits the use of bumpers but the ASME A17.1 Part 5 requirements do not require bumper supports.</p> <p><b>5. A17.1 302.3g:</b> Opposed to eliminating the provision for a separate pumping unit for the collection of oils. Feels ASME A17.1 302.3g is vague. Asks how many 5-gallon pails will overflow into pits and drains and contaminate ground or water before it is realized this is foolish. Recommends the current code requirement, Comm 18.33 (1) should remain in effect.</p>	<p><b>4. Disagree.</b> The intent of the requirements in ss. Comm 18.36 to 18.418 is to insure that adequate safety measures are provided to ASME A17.1 Part 5 elevators installed in public buildings and places of employment.</p> <p><b>5. Disagree.</b> This section states the oil must be collected and the means to collect the oils cannot exceed 5 gallons. By using this language an owner has more options for compliance without installing a separate pumping unit.</p>
9	Lyle N. Koener, Jr. Deputy Chief of Prevention City of Eau Claire Fire and Rescue Department Eau Claire, WI 54701-3702	<p><b>1. Comm 18.295:</b> Concerned with the elimination of the stretcher-sized elevators in health care facilities and medical clinics. Indicates the Eau Claire Fire Department has made several medical transports from local health care facilities and clinics. Feels if the size of the elevator is reduced, an extra burden will be placed on the emergency medical technicians (EMT) and firefighters since they will have to use the stairways. This could cause injury not only to the patient but the EMTs and firefighters.</p> <p><b>2. ASME A17.1 211.8:</b> Concerned with the elimination of the metal box that holds the elevator keys for emergency use. Indicates the proposed change suggests that the elevator keys be kept in a uniform lock box. Feels this proposal is unacceptable because of the small size of the lock boxes in their community. States the lock boxes are full of keys now and it would be impossible to add any more keys to them.</p>	<p><b>1. Agree.</b> See response to Exhibit #6, mailed-in comments.</p> <p><b>2. Agree.</b> A box to hold an extra set of the elevator and machine room keys will be retained as a requirement.</p>

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10	David Holmes Elevator Specialist	<p><b>A17.1 210.2 (v):</b>  Opposed to the elimination of the requirement that prohibits stop switches within passenger elevator car enclosures. Indicates ASME A17.1 210.2 (v) requirement permits either a key-operated switch or a switch behind a locked panel, both located within the car enclosure. Feels these type of switches will stop an elevator at any point in travel and are located where it could be available to the general public. This may cause more problems, which could far outweigh any additional safety benefits. Indicated the ASME A17.1-1996 Handbook identifies Wisconsin and Florida as states with in-car stop switch prohibitions. Believes that a "door hold" switch would be just as useful and provide a greater level of safety for the public.</p>	<p><b>Disagree.</b>  It was discussed compliance with the current in-car, stop-switch prohibition is difficult for manufacturers since they must reprogram the elevator equipment for installation in Wisconsin. They indicated the reprogramming of the elevator equipment is not a simple task nor is it inexpensive to do. It was decided to leave the ASME A17.1 210.2 (v) requirement, which permits a stop switch behind a locked panel, as written without exception.</p>



State of Wisconsin \ Department of Commerce

# HEARING DRAFT of PROPOSED RULES

**Rule No.:**

Chapters Comm 2, 18 and 69

**Relating to:**

Elevators and mechanical lifting devices

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The Department of Commerce proposes an order to amend s. Comm 2.15 (1) and (3); and repeal and recreate chapter Comm 18, ss. Comm 69.20 (3) (b) 3. and Comm 69.28; relating to elevators and mechanical lifting devices.

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## ANALYSIS OF PROPOSED RULES

Statutory Authority: ss. 101.02 (1) and (15), 101.13 and 101.17, Stats.

Statute Interpreted: s. 101.17, Stats.

The Department of Commerce is responsible for adopting standards to protect the safety and health of employees and frequenters in places of employment and public buildings using elevators and other mechanical lifting devices.

The purpose of chapter Comm 18, Elevator Code, is to establish safety requirements for elevators and other mechanical lifting devices installed in or at public buildings and places of employment. Chapter Comm 18 is being rewritten to adopt by reference the 1996 edition of the American Society of Mechanical Engineers (ASME) A17.1 Safety Code for Elevators and Escalators, to modify certain sections within chapter Comm 69 relating to elevators and other mechanical lifting devices and to change terminology and cross-referencing in chapter Comm.2. The purpose of the code changes is to eliminate outdated requirements that have been modified by the ASME A17.1 Safety Code for Elevators and Escalators and provide for reasonable safety of elevators and other mechanical lifting devices.

The following proposed changes are the major items being considered for revision.

1. Adopt by reference the 1996 edition of the American Society of Mechanical Engineers (ASME) A17.1, Safety Code for Elevators and Escalators. [Comm 18.14]
2. Establish a rule that requires owners to notify the Department within 48 hours of any failure of an elevator or other installation covered by this code that caused injury to a person using the equipment. [Comm 18.08 (2)]
3. Reorganize the plan submittal requirements for clarity. [Comm 18.09]
4. Modify s. Comm 2.15 to correct cross-referencing to s. Comm 18.09 and to use the terminology of "permit to operate" instead of "certificate of operation." [Comm 2.15, Comm 18.09 and Comm 18.12]
5. Eliminate the 24 inches of refuge space at the top and bottom of an elevator car since this is now covered in the ASME A17.1 standard. Require the refuge space specified in the ASME A17.1 standard to be outlined and identified with a sign. [Comm 18.24]

6. Eliminate the requirement for a stretcher-sized elevator to be provided in all healthcare facilities and medical clinics, regardless of the number of stories of the building. Stretcher-sized elevators will be required in all buildings 4 or more stories in height. [Comm 18.295]
7. Eliminate the previous code restriction that side emergency doors could not be provided on elevator cars and use the ASME A17.1 210.2 (s) standard that allows side emergency doors.
8. Eliminate the previous requirement that a metal box be provided on all elevators to hold the elevator switch keys for emergency personnel. Local emergency personnel may specify a uniform type of lock box to contain the necessary keys as specified in A17.1 211.8.
9. Eliminate the requirement for a 12-inch pit depth for a residential elevator and modified the rules to be consistent with A17.1 107.1 or A17.1 2500.8b. relating to limited-use limited-access elevators. [Comm 18.361 (2)]
10. Modify rules by placing maneuvering spaces at elevator and lift doors in chapter Comm 69 and by adding cross-references to this section. [Comm 18.361 (4) (b) and Comm 69.28 (2)]
11. Permit the use of bumper supports for residential elevators providing they comply with A17.1 2501.2. [Comm 18.364]
12. Require hand elevators to comply with Comm 18 and A17.1 Part 7. [Comm 18.43]
13. Reorganize inspection requirements to modify the A17.1 Part 10 standards. [Comm 18.48 to Comm 18.59]
14. Modify vision panel and running clearance requirements for vertical platform lifts. [Comm 18.69 (1) (b) and (c)]
15. Permit the use of a side entrance to a vertical platform lift. The platform size shall be at least 39 inches in width and at least 60 inches in length. The door shall be at least 42 inches in width. [Comm 18.69 (4)]
16. Modify the mounting height of the hall call button for vertical platform lifts to comply with ch. 69, ADAAG 4.27. [Comm 18.74(2)]
17. Eliminate the Wisconsin requirements relating to department staff witnessing drop tests; prohibition of an in-car stop switch; and provision of a separate pumping unit for collection of oils.

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SECTION 1. Comm 2.15 (1) and (3) are amended to read:

**Comm 2.15 (1) PLAN EXAMINATION, APPLICATION AND INITIAL INSPECTION FEES.** Fees for the initial inspection and for the examination of plans or for an application for installation or alteration, or both, submitted in accordance with the requirements of ~~ch. s. Comm 18.10 (1) (a)~~ 18.09, shall be determined in accordance with Table 2.15-1. A reinspection fee as specified in Table 2.15-1 shall be charged for each inspection conducted until the elevator can be issued a permit to operate.

**Comm 2.15 (3) ~~CERTIFICATES OF OPERATION~~ PERMIT TO OPERATE.** The department shall issue a ~~certificate of operation~~ permit to operate for each elevator upon receipt of fees and the inspection report indicating the elevator satisfies the minimum operating standards specified in ch. Comm 18. The fee per ~~certificate~~ permit shall be \$20.00.

SECTION 2. Chapter Comm 18 is repealed and recreated to read:

## CHAPTER COMM 18 ELEVATOR CODE

### Subchapter I Administration and Enforcement

**Comm 18.01 PURPOSE.** 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.

**Comm 18.02 SCOPE AND APPLICATION.** Refer to A17.1 Section 1 and s. Comm 18.17 for scope and application requirements.

**Comm 18.04 PETITION FOR VARIANCE. (1) PROCEDURE.** The department shall consider and may grant a variance to a provision in this chapter upon receipt of a fee and a completed petition for variance form from the owner, provided an equivalency is established in the petition for variance which meets the intent of the provision being petitioned. The department may impose specific conditions in granting a variance to promote the protection of the health, safety and welfare of the employes or the public. Violation of the conditions under which a variance is granted shall constitute a violation of the rules for which a variance is received.

Note 1: Copies of the petition for variance form SB-8 are available at no charge from the Safety and Buildings Division, P.O. Box 7162, Madison, Wisconsin 53707 or telephone (608) 266-3151 or TTY (608) 264-8777.

Note 2: Section 101.02 (6), Stats., and ch. Comm 3 outline the procedure for submitting petitions to the department and the department procedures for hearing petitions.

**(2) PETITION PROCESSING TIME.** Except for priority petitions, the department shall review and make a determination on a petition for variance within 30 business days of receipt of all calculations, documents and fees required to complete the review. The department shall process priority petitions within 10 business days of receipt of the required items.

**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 employee 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, employee, 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 I of ch. 101, Stats. For each such violation, failure or refusal, such employee, 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.

**Comm 18.06 APPEALS. (1) APPEAL OF LOCAL ORDER.** 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.

**(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.

**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.



**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 have the responsibility for interpreting 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 fails and 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, description of the accident and reason for the accident.

(b) *Operation discontinued.* When an accident involves the failure or destruction of a part of the installation or the operating mechanisms, the elevator or device shall be taken out of service and shall not be used again until it has been made safe.

(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.

## 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 elevators, mechanical lifting devices and machine rooms comply with the requirements of this chapter, the building codes and ch. Comm 69.

(2) ALTERATIONS AND REPLACEMENTS. (a) *Plans and application required.* At least 4 copies each of plans and specifications complying with par. (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 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 Comm 2.15 for fee requirements.

Note: For a copy of the department application form SBD-22 contact the Department of Commerce, Division of Safety and Buildings, 401 Pilot Court, Suite C, Waukesha, WI. 53707, or telephone (414) 521-5444.

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

(a) *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.

(b) *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.

(c) *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.

(d) *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 plans and application are approved. The elevator approval letter shall be posted at or near the equipment space at the construction site, prior to construction 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.

**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) REVOCATION.** The department or municipality may revoke the permit to operate if the equipment is found to be in noncompliance 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.

**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.

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

Note: Copies of the ASME A17.1-1996 standard can be obtained from the ASME Order Department, 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300.

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.

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].

INTRODUCTION

**Comm 18.17 SCOPE AND APPLICATION [A17.1 SECTION 1]. (1) EQUIPMENT COVERED BY THIS CODE [A17.1.1].** These are department rules in addition to the requirements of A17.1.1:

- (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 18.40 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 omission 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.

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

**Comm 18.18 DEFINITIONS [A17.1 Section 3]. (1) ADDITIONS.** The following are department definitions 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-resistive rating" means a rating as defined in s. Comm 51.01 (50).

(d) "Municipality" means a city employing an elevator inspector certified by the department and exercising legal jurisdiction over elevator installations covered by this chapter.

(e) "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 employees 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."

(f) "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 respective 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 of the Wisconsin administrative code.

(c) "Installations, existing" means an installation that has been completed or for which the elevator contract was awarded before the effective date of this chapter.

(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 the effective date of this chapter.

(f) "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.
  - c. The fuses, where provided, are removed from the disconnect switchbox and are sealed by the department.
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.

#### 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.

**Comm 18.20 ACCESS TO MACHINE ROOMS AND MACHINERY SPACES**

**[A17.1 101.3a]. (1) ACCESS TO THE MACHINE ROOM [A17.1 101.3a].** This is a department rule in addition to the requirements of A17.1 101.3a: Access to the machine room or penthouse for elevators shall not be through any toilet room, sleeping room or private quarters.

**(2) ENTRANCE TO THE MACHINE ROOM [A17.1 101.3d].** This is a department rule in addition to the requirements of A17.1 101.3d: 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."

**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.

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

**(1) GUARDING HEIGHTS.** Guarding beyond 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.

**Comm 18.23 DESIGN AND CONSTRUCTION OF PITS [A17.1 106.1b].** Substitute the following wording for A17.1 106.1b (3): Drains connected directly to sanitary drain systems shall not be installed in elevator pits. Sumps may be installed. Where drains are not provided to prevent the accumulation of water, sumps and sump pumps shall be provided. Drains and sumps shall comply with ss. Comm 82.33 (9) and 82.36 (11).

**Comm18.24 BOTTOM AND TOP CLEARANCES AND RUNBYS 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.

**Comm 18.25 HORIZONTAL CAR AND COUNTERWEIGHT CLEARANCES [A17.1 108].** (1) **BETWEEN CAR AND HOISTWAY ENCLOSURES [A17.1 108.1a].** Substitute the following wording for A17.1 108.1a: The running clearance between the car and hoistway enclosure and any projection within the hoistway enclosure shall not be less than 3/4 inch except on the sides used for loading and unloading.

(2) **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.

**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, except for dumbwaiters as specified in A17.1 700.12d.

(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 emergency personnel.

## PART 2 MACHINERY AND EQUIPMENT FOR ELECTRIC ELEVATORS

**Comm 18.27 VERTICAL 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.

**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.

**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.

**Comm 18.295 MINIMUM RATED LOAD FOR PASSENGER ELEVATORS [A17.1 207.1].** This is a department rule in addition to the requirements of A17.1 207.1: In all buildings four stories or more in height, 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".

**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): Portable types shall be provided with hardware to securely mount it when not in use.

**(2) EMERGENCY STOP SWITCH [A17.1 210.2 (e)].** This is a department rule in addition to the requirements of A17.1 210.2 (e): A door hold-open key or toggle switch shall be permitted provided it is rendered inoperative when the elevator is under the emergency control required by A17.1 211.3.

**(3) 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.

**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]. Substitute the following wording for A17.1 211.3b, (intro.): Smoke detectors shall be installed at each elevator floor, associated elevator machine room, and, where required, elevator hoistway in compliance with the requirements in ANSI/NFPA 72 and the building code. The lobby smoke detector shall be visible and located within 15 feet, measured horizontally, from all elevator lobbies at unenclosed landings.

### 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 maintained at 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.

**Comm 18.33 INSTALLATION BELOW GROUND [A17.1 302.3h].** (1) MONITORED CATHODIC PROTECTION [A17.1 302.3h (1)]. A17.1 302.3h (1) does not apply.

(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.

**Comm 18.34 ANTI-CREEP OPERATION [A17.1 306.3 (a)].** Substitute the following wording for A17.1 306.3 (a) (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.

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

**(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.

#### 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: Part 5 residential elevators complying with this part and as modified in ss. Comm 18.361 to 18.418 may only be installed as specified in ch. Comm 69.

**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: Bottom car clearances shall comply with A17.1 107.1a or A17.1 2500.8b.

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

**(4) PROTECTION OF HOISTWAY OPENINGS [A17.1 500.4].** (a) *Hoistway gates [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.

(b) *Opening of hoistway doors [A17.1 500.4e].* Substitute the following wording for A17.1 500.4e: Hoistway doors shall comply with all of the following:

1. Hoistway doors shall comply with s. Comm 69.28 (2) (a).
2. a. Except as specified in subd. 2.b., hoistway doors shall be power-opening and self-closing and shall comply with A17.1 112.2a (1), 112.3, 112.5 and 112.6.  
b. Hoistway doors may be manual-opening and self-closing if the hoistway doors and the maneuvering clearances are designed in accordance with s. Comm 69.28 (2) (b).

(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.

**Comm 18.362 CARS [A17.1 501]. (1) CAR FRAMES AND PLATFORMS [A17.1 501.1].** This rule 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]. This rule is a department rule in addition to the requirements of A17.1 501.2: A car enclosure shall comply with A17.1 204.1f and 204.2.

(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, 112.5 and 112.6.

(c) *Car door or gate locking devices [A17.1 501.4b]*. Substitute the following wording for Rule 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 on cars shall comply with A17.1 204.7.

**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.

**Comm 18.364 BUFFERS AND BUFFER SUPPORTS [A17.1 505.1].** Substitute the following wording for A17.1 505.1 (c): Bumpers and buffers shall be provided in accordance with A17.1 2501.2.

**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.

**Comm 18.366 STOPPING DEVICES REQUIRED [A17.1 507.1].** Substitute the following wording for A17.1 507.1 (c), the first paragraph: If the driving machine is of the sprocket and chain suspension type.

**Comm 18.367 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. Key-operation is prohibited, except a key switch may be used for any car that is exterior to a place of worship built prior to April 1, 1994.

(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).

(3) **SLACK-CHAIN DEVICES FOR ROLLER-CHAIN TYPE DRIVING MACHINES [A17.1 508.8].** The entire first paragraph of A17.1 508.8 does not apply.

**Comm 18.368 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.

**Comm 18.369 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.

**Comm 18.40 SUSPENSION MEANS [A17.1 512].** (1) **SUSPENSION ROPES [A17.1 512.2].** Substitute the following wording for A17.1 512.2: Suspension ropes shall be not less than 3/8 inches in diameter.

(2) **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.

**Comm 18.41 PRIVATE RESIDENCE INCLINED ELEVATORS [A17.1 513].** Substitute the following wording for A17.1 section 513: Private residence inclined elevators specified in A17.1 513 are not permitted in public buildings and places of employment.

**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.

**Comm 18.418 ACCESSIBILITY FEATURES.** All private residence elevators shall comply with ch. Comm 69, ADAAG 4.10.3, 4.10.5, 4.10.6, 4.10.10, 4.10.11, 4.10.12 and 4.10.14.

## 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 A17.700.9: 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.

## 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 par. (a).

4. All new equipment, as specified in s. Comm 18.02 (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 room 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, shall be inspected as determined by the department or municipality.

**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 rules in effect on the contract date.

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

**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.

**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 SB-2E.

Note: For a copy of the department application form SB-2E contact the Department of Commerce, Division of Safety and Buildings, 401 Pilot Court, Suite C, Waukesha, WI. 53707, or telephone (414) 521-5444.

(b) *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.

**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.

**Comm 18.55 PERIODIC INSPECTION AND TESTS OF PASSENGER AND FREIGHT HYDRAULIC ELEVATORS [A17.1 1005].** (1) **INSPECTION AND TEST PERIODS.** 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].** Sections 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.

**Comm 18.58 ROUTINE INSPECTION AND TESTS OF ESCALATORS OR MOVING WALKS [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.

**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.

## 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) 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.

**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.

**Comm 18.64 MAINTENANCE [A17.1 1206]. (1) 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.

**(2) MAINTENANCE OF HYDRAULIC ELEVATORS AND DUMBWAITERS [A17.1 1206.5b].** Substitute the following wording for A17.1 1206.5b (5): A drip ring or reservoir shall be provided at the packing gland of the cylinder to collect the oil leakage.

### 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.

## 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.

**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. Hoistway doors and platform gates shall comply with s. Comm 69.28 (2) (a).
2. a. Except as specified in subd. 2.b., hoistway doors and platform gates shall be power-opening and self-closing and shall comply with A17.1 112.2b (1) and ADAAG 4.10.7 and 4.10.8.  
  
b. Hoistway doors and platform gates may be manual-opening and self-closing if the hoistway doors or platform gates and the maneuvering clearances are designed in accordance with s. Comm 69.28 (2) (c).

3. A set of lift operating keys and a door unlocking device shall be made available to the fire department, police department or other authorized personnel in an emergency situation.

4. a. Except as specified in subd. 4.b., a vision panel shall be provided in each hoistway door and shall be at least 24 square inches in size and centered at 48 inches above the floor.

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 doors or door glazing insets shall be not more than 1-1/4 inches. Where the clearance between the platform and door or door glazing inset exceeds 3/4 inch, the shear possibility under the door header or door 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:

1. At least one handrail shall be provided extending the full length of either side guard.
2. The top of the handrail shall be mounted between 34 inches and 38 inches above the car floor. The space between the wall and the handrail shall be 1-1/2 inches. The handrail shall not project more than 4 inches from the wall.

(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:

1. At least one handrail shall be provided extending the full length of either side guard.
2. The top of the handrail shall be mounted between 34 inches and 38 inches above the car floor. The space between the wall and the handrail shall be 1-1/2 inches. The handrail shall not project more than 4 inches from the wall.

(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) *General lifts*. Except as specified in par. (b), the net platform area 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 lifts.* 1. Side entrance platform lifts shall have a net platform area of not more than 18 square feet with a minimum clear width of 39 inches and minimum clear length of 60 inches.

2. The side door to the lift shall provide a minimum clear opening of at least 42 inches. Clear floor space for maneuverability at the doors shall comply with s. Comm 69.28.

(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 Rule 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) **OPERATING DEVICES AND CONTROL EQUIPMENT** [A17.1 2000.10]. (1) **ATTENDANT OPERATION** [A17.1 2000.10b]. Attendant operation is prohibited.

(7) **EMERGENCY SIGNALS** [A17.1 2000.11]. This is a department rule in addition to the requirements of 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), except that two separate switches to operate the audible signaling devices are not required where an emergency stop switch complying with A17.1 210.2 (e) illuminates when activated and is identified, also as an alarm.

**Comm 18.74 ACCESSIBILITY FEATURES.** A vertical platform lift shall be designed with all of the following accessibility features:

(1) **SELF LEVELING FEATURE.** Self-leveling feature that will automatically bring the lift to floor landings within a tolerance of ½ inch under rated loading to zero loading conditions.

(2) **HALL CALL BUTTON.** Hall call buttons complying with ch. Comm 69, ADAAG 4.10.3, except for the mounting height provisions, and ADAAG 4.27.

(3) FLOOR IDENTIFICATION. Raised and Braille characters identifying the floor level and complying with ch. Comm 69, ADAAG 4.30.4.

(4) DOOR DELAY. Door delay for car calls complying with ch. Comm 69, ADAAG 4.10.8.

(5) CLEARANCES. Clearance between the car platform and the edge of any hoistway-landing sill shall be no greater than  $\frac{3}{4}$  inches.

(6) FLOOR SURFACES. Floor surfaces complying with ch. Comm 69, ADAAG 4.5.

(7) ILLUMINATION. Illumination levels complying with ch. Comm 69, ADAAG 4.10.11.

(8) CAR CONTROLS. Car controls complying with ch. Comm 69, ADAAG 4.10.12, except the last two sentences of ADAAG 4.10.12 (2) do not apply .

(9) EMERGENCY COMMUNICATIONS. Emergency communication systems complying with ch. Comm 69, ADAAG 4.10.14.

**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 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. Where 6 feet 8 inches of headroom clearance cannot be provided, a headroom clearance of 5 feet will be acceptable providing the lift has an permanently attached folding seat for users. A sign shall be posted explaining users of the unit must be seated while the unit is in operation.

**(3) 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 intro 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, ADAAG 4.7 and ADAAG 4.8.

**(4) 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.

**(5) ATTENDANT OPERATION [A17.1 2001.10b].** Attendant operation is prohibited.

**(6) ACCESSIBILITY FEATURES.** An inclined platform lift shall be designed with accessibility features specified in s. Comm 18.74, except subs. (4) and (5).

**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 outer most 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. Where 6 feet 8 inches of headroom clearance cannot be provided, a headroom clearance of 5 feet will be acceptable providing the lift has a permanently attached folding seat for users. A sign shall be posted explaining users of the unit must be seated while the unit is in operation.

#### 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.

#### 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.

#### 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.

**(3) POWER OPERATION OF HOISTWAY DOORS AND CAR DOORS AND GATES [A17.1 2500.13].** This is a department rule in addition to the requirements of A17.1 2500.13: Where a limited-use, limited-application elevator is used which has a swing type door, the door shall not swing into or obstruct the required exit width as specified in the building code.

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

**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.

**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 sprinkler requirements.

SECTION 3: Comm 69.20 (3) (b) 3. is repealed and recreated to read:

Comm 69.20 (3) (b) 3. Residential elevators complying with A17.1 Part 5 and ch. Comm 18 may only be installed in places of worship built prior to April 1, 1994.

SECTION 4: Comm 69.28 is repealed and recreated to read:

**Comm 69.28 PLATFORM LIFTS [ADAAG 4.11]. (1) GENERAL REQUIREMENTS [A17.1 4.11.2].** Substitute the following wording for ADAAG 4.11.2: If limited-use elevators, vertical or inclined platform lifts, stairway chairlifts or residential elevators are installed in a building or facility as permitted in this chapter, they shall comply with ADAAG 4.2.4, 4.5, and 4.27 and ch. Comm 18.

(2) ELEVATOR AND LIFT HOISTWAY DOORS [A17.1 4.11.3]. These are department rules in addition to the requirements of ADAAG 4.11.3: (a) *General*. Power-opening and manual-opening hoistway doors to limited-use elevators and vertical platform lifts shall comply with all of the following:

1. a. Except as specified in 1. b., hoistway doors shall provide a minimum clear opening of at least 32 inches as specified in ADAAG 4.13.5.

b. The door to a side entrance platform lift shall provide a minimum clear opening of at least 42 inches.

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

3. The maximum force for pushing or pulling open a hinged hoistway door shall comply with ADAAG 4.13.10 and 4.13.11.

(b) *Power-opening hoistway doors*. Power-opening hoistway doors shall not swing into the clear floor space required for the operation of the door-opening control button. Door timing for hall calls and door delays for car calls shall comply with ADAAG 4.10.7 and ADAAG 4.10.8.

(c) *Manual-opening hoistway doors*. Hoistway doors to limited-use elevators, residential elevators and vertical platform lifts may be manual-opening and self-closing if the hoistway doors and maneuvering clearances are designed in accordance with 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 as shown in ADAAG 4.13.6, 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 maneuvering clearances at the pull-side of the hoistway doors shall comply with ADAAG 4.13, Figure 25 for the pull side of doors.

(END)

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#### EFFECTIVE DATE

Pursuant to s. 227.22 (2) (intro.) Stats., these rules shall take effect on the first day of the month following publication in the Wisconsin Administrative Register.

\*\*\*\*\*



201 West Washington Avenue  
P.O. Box 7970  
Madison, Wisconsin 53707  
(608) 266-1018

Tommy G. Thompson, Governor  
Brenda J. Blanchard, Secretary

July 21, 1999

JUL 22 REC'D

Senate Chief Clerk  
Room 402  
1 East Main Street  
Madison, Wisconsin 53703

Assembly Chief Clerk  
Room 402  
1 East Main Street  
Madison, Wisconsin 53703

Dear Chief Clerks:

**TRANSMITTAL IN FINAL DRAFT FORM OF ADMINISTRATIVE  
RULES AND REPORT**

CLEARINGHOUSE RULE NO.: 99-007

RULE NO.: Chapters Comm 2, 18, 64 and 69

RELATING TO: Elevators and mechanical lifting devices

Pursuant to section 227.19, Stats., agencies are required to submit, in triplicate, copies of the proposed administrative rules in final draft form together with a rule report and an analysis. The recommendations received from the Legislative Council are also to be submitted.

At this time, this material, together with cover letters to the President of the Senate and the Speaker of the Assembly, is being transmitted for referral to the standing committees for legislative review.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'B. J. Blanchard', written over a horizontal line.

Brenda J. Blanchard  
Secretary