



**STATE OF WISCONSIN**

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**Governor Scott Walker      Secretary Dave Ross**

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**CONVEYANCE SAFETY CODE COUNCIL  
Room 121C, 1400 East Washington Avenue, Madison  
Contact: Sam Rockweiler (608) 266-0797  
December 13, 2013**

*The following agenda describes the issues that the Council plans to consider at the meeting. At the time of the meeting, items may be removed from the agenda. Please consult the meeting minutes for a description of the recommendations of the Council.*

**AGENDA**

**9:30 A.M.**

**CALL TO ORDER – ROLL CALL**

- A. Review of Agenda(1-2)**
- B. Approval of Minutes(3-4)**
- C. Proposed Repeal and Recreation of SPS 318 – Including adoption of the 2013 Edition of ASME A17.1, and Draft Changes to SPS 305, 362, and 366(5-70)**
- D. Other Council Issues and Concerns**
- E. Public Comments**
- F. Future Business**
- G. Adjournment**

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**DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES  
CONVEYANCE CODE COUNCIL  
MEETING MINUTES  
NOVEMBER 20, 2013**

**PRESENT:** William Grubbs; Kelvin Nord; Brian Rausch, DSPS Industry Services Division;  
Paul Rosenberg; Adam Smith; Kenneth Smith

**EXCUSED:** Michael Dauck

**ABSENT:** Brian Hornung

**STAFF:** Jeff Weigand, Policy Director; Sam Rockweiler, Rules Coordinator; Nicholas  
Tank, Bureau Assistant;

Paul Rosenberg, Chair, called the meeting to order at 9:38 a.m. A quorum of six (6) members was confirmed.

**ADOPTION OF AGENDA**

**MOTION:** Kenneth Smith moved, seconded by Adam Smith, to adopt the agenda as published. Motion carried unanimously.

**APPROVAL OF MINUTES OF JULY 31, 2013**

**MOTION:** Kenneth Smith moved, seconded by Adam Smith, to approve the minutes of July 31, 2013 as published. Motion carried unanimously.

**PROPOSED REPEAL AND RECREATION OF SPS 318, ADOPTION OF THE 2013  
EDITION OF ASME A17.1, AND DRAFT CHANGES TO SPS 302 AND 305**

**MOTION:** Kenneth Smith moved, seconded by Adam Smith, to either move the language from 2.11.6.3(d) and (e) to chapter SPS 362, or delete it if that move does not occur. Motion carried unanimously.

**ADJOURNMENT**

**MOTION:** Kenneth Smith moved, seconded by William Grubbs, to adjourn the meeting. Motion carried unanimously.

The meeting adjourned at 3:05 p.m.

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State of Wisconsin | Department of Safety and Professional Services

# Public Hearing Working Draft

**Rule No.:** Chapter SPS 318

**Relating to:** Elevators, Escalators and Lift Devices

**Draft Date:** December 6, 2013

COM-10535 (N.8/11)

The Department of Safety and Professional Services proposes an order to:  
repeal ss.  
renumber ss.  
renumber and amend ss.  
amend ss.  
repeal and recreate ss.  
create ss., relating to the conveyances.

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**Analysis of Proposed Rules**

**1. Statutes Interpreted.**

Sections 101.02 (15) (h) to (j), 101.17, 101.63 (1), 101.981 (2), 101.982, 101.983 and 101.988, Stats.

**2. Statutory Authority.**

Sections 101.02 (15) (h) to (j), 101.17, 101.63 (1), 101.981 (2) and 101.982, Stats.

**3. Related Statute or Rule.**

Chapters SPS 361 to 366, Wisconsin Commercial Building Code  
Chapters SPS 320 to 325, Wisconsin Uniform Dwelling Code

#### 4. Explanation of Agency Authority.

Under the authority of ss. 101.17, 101.63 and 101.982, Stats., the Department has the authority to promulgate rules for the safe installation and operation of conveyances (elevators, escalators and lift devices). Under the authority of ss. 101.17, 101.983 and 101.988, Stats., the Department has the authority to promulgate rules for required permits, inspection and enforcement of the technical standards.

#### 5. Summary of Proposed Rules.

Currently, the Department's standards for conveyance are contained in chapter SPS 318, Elevators, Escalators and Lift Devices. The code adopts and references the following two national standards published by the American Society of Mechanical Engineers, ASME as the basis of the code's technical standards:

- ASME A17.1-2013, Safety Code for Elevators and Escalators
- ASME A18.1-2011, Safety Standard for Platform Lifts and Stairway Chairlifts

Chapter SPS 318 includes modifications made to these two standards.

The revisions to chapter SPS 318 are to adopt the most current editions of the ASME A17.1-2013, and ASME A18.1- 2011. The proposed rules contain a number of modifications to the technical requirements within these standards, reorganization of current requirements and editorial changes. The following is a summary of the major rule changes to these chapters:

- (a)
- (b)
- (c)
- (d)
- (e)
- (f)
- (g)
- (h)
- (i)
- (j)
- (k)
- (l)
- (m)

(n)

#### **6. Summary of, and Comparison with, Existing or Proposed Federal Regulations.**

There are no existing or proposed federal regulations that address or impact the activities to be regulated by this rule.

#### **7. Comparison with Rules in Adjacent States.**

An Internet-based search found that all of the adjacent states adopt by reference certain editions of the ASME A17.1, Safety Code for Elevators and Escalators and the ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts. The adjacent states also create amendments to the adopted standard similar to Wisconsin's administrative rules relating to elevators, escalators and lift devices.

The following are the adjacent states and the edition of the ASME coded they adopt and enforce:

- (a) The Illinois Office of the State Fire Marshal, Division of Elevator Safety is responsible for implementing the Elevator Safety and Regulation Acts. The 20?? edition of the ASME A17.1, Safety Code for Elevators and Escalators, the 2005 A17.1a, Addenda and the 20?? edition of the ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts are both adopted by reference.
- (b) The Iowa Department of Workforce Development, Division of Labor Services, Elevator and Escalators oversees that all elevators, escalators, dumbwaiters and related equipment must comply with all rules and statutes. The 2010 edition of the ASME A17.1, Safety Code for Elevators and Escalators, the 20?? edition of the ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts are both adopted by reference.
- (c) The Minnesota Department of Labor and Industry is responsible for enforcing minimum requirements relating to building codes, including elevators and related devices. The requirements include the design, construction, installation, alteration, repair, removal and operation and maintenance of passenger elevators. The 20?? edition of the ASME A17.1, Safety Code for Elevators and Escalators with ASME A17.1A Addenda and the Supplement A17.1S-2005 and the 20?? edition of the ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts are both adopted by reference.

- (d) The Michigan Department of Labor and Economic Growth is responsible for issuing permits, the examination and licensing of elevator journeypersons and contractors, inspecting of elevators, escalators and dumbwaiters, complaint investigations and reporting elevator accidents. The state rules establish, for the protection of the general public, minimum safety requirements for inspection, construction, installation, alteration, maintenance, repair and operation of elevators. The 20?? edition of the ASME A17.1, Safety Code for Elevators and Escalators and the 20?? edition of the ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts are both adopted by reference.

#### **8. Summary of Factual Data and Analytical Methodologies.**

The primary methodology for updating the Wisconsin Administrative Code, chapter SPS 318 relating to conveyances has been a review and assessment of the latest editions of the national technical standards for the design and construction of conveyances, which serves as the basis for chapter SPS 318. Staff prepared a comprehensive comparison of the changes in the latest editions of the ASME standards to the editions currently adopted under SPS 318. The Department's review and assessment process involved the participation of the Conveyance Safety Code Council. The members of that Council represent many stakeholders involved in the conveyance industry, including manufacturers, inspectors, building contractors and the general public as users of the conveyances. (A listing of the Conveyance Safety Code Council is provided at the end of this analysis.)

The Department believes that the national model codes reflect current societal values with respect to protecting public health, safety and welfare in the design, construction, use, operation and maintenance of conveyances in commercial and residential buildings. The ASME standard setting committees use a process open to all parties in the development of their codes. More information on the development of these standards may be obtained from the ASME web site at:

[www.asme.org](http://www.asme.org)

#### **9. Analysis and Supporting Documents Used to Determine Effect on Small Business or in Preparation of Economic Impact Report.**

The Department used the Conveyance Safety Code Council to gather and analyze information on potential impacts in complying with both the technical and administrative requirements of the codes. Small businesses that install elevators and dumbwaiters in commercial facilities will be familiar with the inspection and permit processes that will now be required for installations serving dwelling units.

In addition to posting rule development and council activities on the department's web site, the department offers an Email subscription service, which is available to all small businesses. This service provides Email notification of council meetings, meeting, agendas and council meeting progress reports so small businesses can follow proposed code changes.

Adopting the most current edition of the 2013 edition of the ASME A17.1 and 2011 edition of the ASME A18.1 national standards will not impose a significant impact on small businesses selling conveyances or providing services for conveyances.

It is anticipated this requirement will not have a significant impact on small businesses installing elevators and dumbwaiters.

**10. Effect on Small Business**

The Department believes the rules will not increase the effect on small businesses from what the current rules impose on them.

**11. Agency Contact**

???, Program Manager, [????@wisconsin.gov](mailto:????@wisconsin.gov), (608) 26?-????.

**12. Public Hearing Comments.**

A public hearing has been scheduled for ??????, ??????, 20???. The hearing record on this proposed rulemaking will remain open until ??????, 20??, to permit submittal of written comments from persons who are unable to attend the hearing or who wish to supplement testimony offered at the hearing. Written comments should be submitted to ??????, at the Department of Safety and Professional Service, P.O. Box 8935, Madison, WI 53708-8935, or Email at [????????@wisconsin.gov](mailto:????????@wisconsin.gov).

**Council Members and Representation**

**Conveyance Safety Code Council**

- Public Member
- Building Inspection
- Building Contractors
- Labor
- Architectural Design or Elevator Consulting Profession
- Building Owners/Managers
- Elevator Manufacturers

Deleted all changes to chapter SPS 302, relating to fees.

SECTION 1. (Place holder for necessary revisions under ch. SPS 305 for reflecting the “conveyance” definitions, as to who can or cannot installed the devices, e.g. elevators serving wind turbines) (possibly SPS 305.64 (1) revise this general statement to include statutory references and eliminate the reference to “as an authorized agent of the department” – first to acknowledge that the “time of sale” elevator inspection for residence is not exclusively under the jurisdiction of department and a “time of sale” inspection can be performed by any third-party licensed elevator inspector; second to acknowledge the potential acceptance of annual inspection reports from third-party licensed elevator inspectors under the provisions of s. 101.12, Stats.)

SECTION 1. SPS 305.003 (15) is repealed and recreated to read:

**SPS 305.003 (15)** “Conveyance” has the meaning as given in s. 101.981 (1) (c), Stats., and those devices specifically listed under s. SPS 318.???? (definitions).

**Note:** Section 101.981 (1) (c), Stats., reads: “Conveyance” means an elevator, an escalator, a dumbwaiter, a belt manlift, a moving walkway, a platform lift, and a stairway chair lift, and any other similar device, such as an automated people mover, used to elevate or move people or things, as provided in the rules of the department. “Conveyance” does not include a personnel hoist; a material hoist; a grain elevator; a lift as defined in s. 167.33 (1) (f), Stats.; an amusement or thrill ride; or a vertical platform lift, inclined platform lift, or a stairway chair lift that serves an individual residential dwelling unit.

SECTION 2. Chapter SPS 318 is repealed and recreated to read:

## **Chapter SPS 318 Elevators, Escalators, and Lift Devices**

### **Subchapter I – Scope and Application**

**SPS 318.1001 Purpose.** Pursuant to ss. 101.982 and 101.983, Stats., the purpose of this chapter is to establish minimum safety standards for the design, construction, installation, operation, inspection, testing, maintenance, alteration, repair and replacement of conveyances.

**SPS 318.1002 Scope. (1)** This chapter applies to conveyances as defined in s. SPS 318.1004.

**SPS 318.1003 Application. (1) RETROACTIVITY.** (a) The design, construction and installation rules of this code, including the applied criteria from the standards adopted in s. SPS 318.1005, do not apply retroactively to conveyances existing prior to the effective date of the rule unless specifically stated in the administrative rule or standard.

(b) 1. The operation, testing, maintenance, and inspection requirements of this chapter apply to all conveyances that exist on or after [the effective date of this rule...LEGISLATIVE REFERENCE BUREAU TO INSERT DATE], except as provided in subd. 2. and par. (c).

2. The provisions of subd. 1. do not apply to a conveyance existing prior to January 1, 2009, that serves a dwelling unit.

**Note:** Section 101.983 (3) of the Statutes reads as follows: “No owner of a residence may sell or otherwise transfer an individual residential dwelling unit that is served by a dumbwaiter or an elevator unless the owner provides the purchaser or transferee, prior to the sale or transfer of the property, with an inspection report from an elevator inspector licensed under s. 101.985 (3) that indicates that the dumbwaiter or elevator complies with this subchapter and any applicable rules promulgated under this subchapter.”

(c) 1. The design, construction and installation requirements of this chapter apply to any alterations, repairs, and replacement parts or components for any conveyance that ~~exists~~ has a contract date of on or after [the effective date of this rule...LEGISLATIVE REFERENCE BUREAU TO INSERT DATE ~~versus the “contract date” to install or alter a conveyance~~], except as provided in subd. 2.

2. The provisions of subd. 1. do not apply to a conveyance existing prior to January 1, 2009, that serves a dwelling unit.

**Note:** A proposed alteration for an existing conveyance may necessitate modifying other components of the conveyance to make the proposed alteration comply with this chapter – and some alterations may necessitate modifying other features of a building that must comply with requirements in chapters SPS 320 to 325, the Wisconsin Uniform Dwelling (One- and Two-Family Dwelling) Code, and chapters SPS 361 to 366, the Wisconsin Commercial Building Code.

(2) DIFFERING RULES. (a) Where any department-written rule in this chapter differs from a requirement within a standard referenced in this chapter, the department-written rule shall govern.

(b) Where a provision of this chapter prescribes a general requirement and another provision of this chapter prescribes a specific or more detailed requirement regarding the same subject, the specific or more detailed requirement shall govern, except as provided in par. (a).

(c) Where different sections of this chapter specify conflicting requirements, the most restrictive requirement, as determined by the department, shall govern, except as provided in pars. (a) and (b).

(3) INTERPRETATIONS. Under s. 101.02 (1), Stats., the department reserves the right to interpret the requirements in this chapter and in all adopted codes and standards adopted under s. SPS 318.1005.

**Note:** Section 101.02 (1) of the Statutes reads as follows: “The department shall adopt reasonable and proper rules and regulations relative to the exercise of its powers and authorities and proper rules to govern its proceedings and to regulate the mode and manner of all investigations and hearings.”

(4) LOCAL REQUIREMENTS. (a) This chapter does not limit the power of cities, villages, and towns to make or enforce additional or more stringent requirements, provided the requirements do not conflict with this chapter, any other rule of the department, or law, except as provided in par. (b).

(b) 1. Pursuant to s. 101.02 (7m), Stats., a city, village, town or county may not enact and enforce additional or more restrictive standards for conveyances serving multifamily dwellings, except as provided under s. 101.975, Stats., and provided they do not conflict with this chapter.

2. Any municipality exercising or intending to exercise jurisdiction under this chapter may apply to the department for a variance permitting the municipality to adopt an ordinance pertaining to conveyances serving multifamily dwellings not in conformance with this chapter. The department shall review and make a determination on a municipal request under this section within 60 business days of receipt of the request.

3. a. The department may grant a municipal variance only where all of the conditions in subds. 3. b. and c. are demonstrated.

b. The municipality demonstrates that the variance is necessary to protect the health, safety, and welfare of individuals within the municipality because of specific climate or soil conditions generally existing within the municipality.

c. The municipality demonstrates that the granting of the variance, when viewed both individually and in conjunction with other variances requested by the municipality, does not impair the statewide uniformity of this chapter's requirements for multifamily dwellings.

d. Prior to making a determination on a municipal variance, the department shall solicit within the municipality and consider the statements of any interested persons as to whether the variance should be granted.

e. This subdivision shall be strictly construed in accordance with the goal of promoting statewide uniformity.

4. Pursuant s. 101.121, Stats., a city, village, town or county may not enact or enforce additional or more restrictive standards regarding issues addressed under this chapter that would apply to alteration or change of occupancy for a historic building.

## Subchapter II – Definitions and Standards

**SPS 318.1004 Definitions.** In this chapter:

(1) “Agent municipality” means any municipality designated as an agent of the department under s. SPS 318.1012 (1) (a).

Note: As of [the effective date of this rule...LEGISLATIVE REFERENCE BUREAU TO INSERT DATE], only the cities of Milwaukee and Madison had become agent municipalities.

(2) “Alteration” means any change to equipment, including its parts, components, or subsystems, other than maintenance, repair, or replacement.

(3) “Approved” means acceptable to the department.

(4) “ANSI” means the American National Standards Institute.

(5) “ASME” means the American Society of Mechanical Engineers.

(6) “Building code” means chs. SPS 361 to 366, which is the Wisconsin Commercial Building Code.

**Note:** The Wisconsin Commercial Building Code, chapters SPS 361 to 366, adopts by reference the *International Building Code*<sup>®</sup> (IBC), the *International Energy Conservation Code*<sup>®</sup> (IECC), the *International Mechanical Code*<sup>®</sup> (IMC), the *International Fuel Gas Code*<sup>®</sup> (IFGC) and the *International Existing Building Code*<sup>®</sup> (IEBC). SPS 314, Fire Prevention Code, may have rules that may affect the maintenance and use of an existing building.

~~(7) “Contract date” means the date of a written contract between an owner or their agent, and an installation contractor, under which a conveyance is to be installed.~~

(8) “Conveyance” has the meaning as given in s. 101.981 (1) (c), Stats., and under s. 101.981 (2), Stats., and is limited to the following types of devices:

**Note:** Section 101.981 (1) (c) of the Statutes reads as follows: “ ‘Conveyance’ means an elevator, an escalator, a dumbwaiter, a belt manlift, a moving walkway, a platform lift, and a stairway chair lift, and any other similar device, such as an automated people mover, used to elevate or move people or things, as provided in the rules of the department. ‘Conveyance’ does not include a personnel hoist; a material hoist; a grain elevator; a lift as defined in s. 167.33 (1) (f); an amusement or thrill ride; or a vertical platform lift, inclined platform lift, or a stairway chair lift that serves an individual residential dwelling unit.”

~~(a) “Automated people mover” means a moving walk.~~

(a) “Elevator” has the meaning as given in s. 101.981 (1) (e), Stats.

**Note:** Section 101.981 (1) (e) of the Statutes reads as follows: “ ‘Elevator’ means a hoisting or lowering machine, other than a dumbwaiter, equipped with a compartment or platform that moves in guides and serves 2 or more floors or landings of a building or structure.”

(b) “Escalator” has the meaning as given in s. 101.981 (1) (f), Stats.

**Note:** Section 101.981 (1) (b) of the Statutes reads as follows: “ ‘Escalator’ means a power-driven, moving stairway used for raising and lowering people.”

(c) “Freight elevator” means an elevator used primarily for carrying freight and on which only the operator and the persons necessary for unloading and loading the freight are permitted to ride.

~~(f) “Inclined elevator” means an elevator that travels at an angle in inclination of 70 degrees or less from the horizontal.~~

(d) “Inclined platform lift” means a powered hoisting and lowering mechanism designed to transport mobility-impaired persons on a guided platform that travels on an incline.

(e) “Limited-use/limited application elevator” means a power passenger elevator that the use and application is limited by size, capacity, and speed, and rise.

~~(i) “Material lift, type B”, means an elevator that moves within a guide system installed at an angle of greater than 70 degrees from the horizontal transporting materials and authorized personnel.~~

(f) “Moving walk” means a type of passenger-carrying device on which passengers stand or walk, and in which the passenger-carrying surface remains parallel to its direction of motion and is uninterrupted.

(g) “Orchestra elevator” means a permanent powered hoisting and lowering mechanism which is within or adjacent to a theatrical or musical stage and which is intended to accommodate musicians and their equipment.

~~(m) “Power dumbwaiter” means a power dumbwaiter utilizing energy other than gravitational or manual to move the car.~~

(h) “Passenger elevator” means an elevator used primarily to carry persons other than the operator and persons necessary for loading and unloading. This term does not include limited use limited application elevators, elevators in dwelling units, stage and orchestra elevators, special purpose personnel elevators, sidewalk elevators, and rooftop elevators.

~~(i) “Private residence elevator” means a power passenger elevator that is limited in size, capacity, rise, and speed, and that is installed within a dwelling unit or provides access to an individual dwelling unit.~~

(j) “Rooftop elevator” means a power passenger or freight elevator operating between a landing at roof level and landings and that opens onto the exterior roof level of a building through a horizontal opening.

(k) “Sidewalk elevator” means an elevator of the freight type operating between a landing in sidewalk or other exterior area and floors below the sidewalk or grade level and that opens onto the exterior area through a horizontal opening.

(L) “Special purpose personnel elevator” means an elevator that is to provide vertical transportation of authorized personnel and their tools and equipment only, limited in size, capacity, and speed, and permanently installed in the following structures:

1. Antenna towers.
2. Assembly facilities, catwalk or equipment access.
3. Breweries.

4. Bridge towers.
5. Dams.
6. Feed/grain facilities.
7. Mine product drying facilities.
8. Observatories.
9. Paper mills.
10. Power plants.
11. Refineries.
12. Underground facilities, excluding mine-shaft elevators.
13. Wastewater treatment structures.

(m) “Stage elevator” means a permanent powered hoisting and lowering mechanism that platform of which serves as a part of a permanent stage.

(n) “Stairway chairlift” means a powered hoisting and lowering mechanism that is guided, equipped with a seat, to transport a seated passenger along stairways.

(o) “Vertical platform lift” means a powered hoisting and lowering mechanism designed to transport mobility-impaired persons on a guided platform that travels vertically.

(9) “Department” means the department of safety and professional services.

(10) “Dwelling unit” has the meaning given in s. 101.61 (1), Stats.

**Note:** Section 101.61 (1) of the Statutes reads as follows: “ ‘Dwelling unit’ means a structure or that part of a structure which is used or intended to be used as a home, residence or sleeping place by one person or by 2 or more persons maintaining a common household, to the exclusion of all others.”

(11) “Licensed elevator inspector” means an individual who holds a valid credential issued by the department under ch. SPS 305 as an elevator inspector.

(12) “Maintenance” means a process or routine examination, lubrication, cleaning, and adjustment of parts, components, or subsystems.

(13) “Repair” means the reconditioning or renewal of parts, components, or subsystems.

(14) “Replacement” means the substitution of a device, component or subsystems, in its entirety, with a similar device, component, or subsystem.

**SPS 318.1005 Adoption of standards by reference. (1) PRIMARY STANDARDS.** The following ASME standards are hereby incorporated by reference into this chapter, subject to the modifications specified in this chapter:

(a) *Safety Code for Elevators and Escalators, A17.1/CSA B44 – 2013.*

(b) *Safety Standard for Platform Lifts and Stairway Chairlifts, A18.1 – 2011.*

**Note:** Copies of the listed standards are on file in the offices of the Department and the Legislative Reference Bureau. Copies of these standards may be purchased from the ASME Order Department, P.O. Box 2900, Fairfield, NJ 07007-2900, telephone 800/843-2763, [www.asme.org](http://www.asme.org).

**(2) SECONDARY REFERENCES.** Any codes or standards referenced in the standards adopted in sub. (1) shall apply to the prescribed extent of each such reference, except as modified by this chapter.

**(3) ALTERNATE STANDARDS.** Any alternate standard that is equivalent to or more stringent than a standard incorporated by reference or otherwise referenced under this chapter may be used in lieu of the incorporated or referenced standard if the alternate standard is accepted in writing by the department.

### Subchapter III – Administration and Enforcement

**SPS 318.1006 Fees.** Fees for plan review, permit application, inspection, permit to operate, and other services performed by the department pertaining to elevators, escalators, and lift devices shall be as determined in ch. [SPS 302](#).

**SPS 318.1007 Plan review and approval. (1) APPROVALS.** (a) 1. Before commencing the construction or installation of a conveyance, an approval shall be obtained from the department or ~~designated~~ agent municipality within whose boundaries the conveyance is to be located.

2. ~~a. Except as provided in subpar. 2. b.,~~ Before commencing an alteration of an existing conveyance as delineated in Tables SPS 318.1007-1 to 318.1007-4, an approval shall be obtained from the department or ~~designated~~ agent municipality within whose boundaries the conveyance is located.

~~b. (place holder for any exceptions – e.g.?)~~

(b) Pursuant to s. 101.983 (1) (a), Stats., the approval issued by the department or agent municipality shall be considered a permit.

**Note:** Section 101.983 (1) (a) of the Statutes reads as follows: “No person may construct, install, or alter a conveyance in this state unless an elevator contractor licensed by the department under s. 101.985 (1) has received a permit for the construction, installation, or alteration from the department.”

(2) NEW INSTALLATIONS. (a) 1. When seeking an approval from the department, at least 3 copies of plans and one set of specifications shall be submitted for review for a new conveyance installation, except as provided in subd. 2.

2. In lieu of 3 copies of ~~equipment-an installation~~ plan, a plan in an electronic format acceptable to the department may be submitted.

Note: An acceptable electronic format does not include a facsimile.

(b) An installation plan submitted for review shall be of sufficient clarity, character and detail to show how the proposed design will conform to the chapter.

(c) 1. A plan submittal to the department for installation approval shall be accompanied by all of the following:

a. A completed application, form SBD-22.

**Note:** The Department forms required in this chapter are available for a nominal fee at telephone 800-DOC-SALE or 411 (Telecommunications Relay) or at [docsales@doa.state.wi.us](mailto:docsales@doa.state.wi.us), or at no charge at the Department's Web site at <http://dsps.wi.gov> through links to Division of Industry Services forms.

b. A plan review fee.

c. An acceptance-inspection fee.

d. The initial permit-to-operate fee.

e. Sufficient information, calculations, or data to substantiate compliance with this chapter.

2. ~~The submitted plan for review~~ For an elevator or dumbwaiter, submitted materials shall include the information in the layout-drawings section in the applicable Part of ASME A17.1, and at least all of the following:

a. A plan of the car and hoistway; ~~and machine room, control room, or control space~~ showing all clearances, including all inside car or platform dimensions, as specified in this chapter and the building code.

b. A plan of the machine room, control room, or control space showing clearances around the machine, controller, and disconnecting means, as specified in this chapter, the building code and the electrical code, where applicable.

c. A cross-section drawing through the hoistway, pit, and car; and machine room, control room, or control space, that shows all applicable dimensions.

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

e. Landings indicating types of hoistway doors or gates.

~~d. A complete dimensioned layout of the machine room, control room, or control space showing working clearances around machine, controller, and disconnecting means.~~

3. For an escalator or moving walk, plans submitted for review shall include all of the following:

a. A plan view showing step, pallet, or belt treadway width and machine space clearances.

b. An elevation view showing all applicable dimensions.

4. For a vertical platform lift, plans submitted for review shall include all of the following:

a. A plan of the platform enclosure and runway including all inside platform dimensions and clearances specified in this chapter and the building code where applicable.

b. A section through the runway, pit, and platform showing all dimensions and clearances.

c. Landings indicating types of runway doors or gates. Where manual doors or gates are provided, plans showing the clearances at manual doors meeting the building code.

5. For an inclined platform lift or stairway chair lift, plans submitted for review shall include the following:

a. A plan of the lift shown in its unfolded operational position at each landing and on the stairway with egress past the lift dimensioned.

b. A section through the stairway or runway showing clearances to steps and overhead with the lift operational.

c. A calculation of egress width past the lift meeting the building code, prepared by a licensed architect or engineer, or evidence such calculation has been approved by the building code authority.

**(3) ALTERATIONS AND REPLACEMENTS.** (a) For proposed alterations and replacements listed in Table 318.1007-1 Items 1. to ?. and Tables 318.1007-2, 318.1007-3, and 318.1007-4, all of the following shall be submitted with the request for approval:

1. A completed application, form SBD-22.

Note: The Department forms required in this chapter are available for a nominal fee at telephone 800-DOC-SALE or 411 (Telecommunications Relay) or at docsales@doa.state.wi.us, or at no charge at the Department's Web site at <http://dsps.wi.gov> through links to Division of Industry Services forms.

2. At least 3 copies of bound equipment layout plans and specifications that conform to the applicable sections in ASME A17.1 ~~and or~~ ASME A18.1.

3. A plan review fee.

4. An acceptance-inspection fee.

**Note:** See chapter SPS 302 for the amount of the fee remitted to the department when a conveyance plan is filed.

4. Sufficient data and information to determine if the proposed alteration complies with the requirements of this chapter.

(b) For proposed alterations listed in Table 318.1007-1 Items 1. to 7., all of the following shall be submitted with the request for approval:

1. At least 3 copies of the completed ~~department application~~ form SBD-22.

2. A plan review fee.

3. An acceptance inspection fee.

4. Sufficient data and information to determine if the proposed alteration complies with ~~the requirements of~~ this chapter.

~~(4) An application for approval to the department pertaining to the construction, installation, or alteration of any conveyance shall be made on form SBD-22.~~

**Note:** The Department forms required in this chapter are available for a nominal fee at telephone 800-DOC-SALE or 411 (Telecommunications Relay) or at [doesales@doa.state.wi.us](mailto:doesales@doa.state.wi.us), or at no charge at the Department's Web site at <http://dps.wi.gov> through links to Division of Industry Services forms.

**Table SPS 318.1007-1**  
**Alterations and Replacements for Elevators**

Item	Scope of Work
1.	Change to a machine room
2.	Change of machinery location or layout
3.	Change in the rated load
4.	Increase or decrease of more than 5% of the total load, a car deadweight plus rated load
5.	Increase or decrease in rise
6.	Change to guide rails, supports and fastenings
7.	Decrease in rated load
	Replacement of a drive machine
	Replacement of a cylinder
	Replacement of a plunger
	Replacement of a safety device
	Replacement of a governor
	Replacement of a controller
	Replacement of a hydraulic control valve
	Replacement of an emergency brake
8.	Conversions:

	a. Type of service, freight to passenger or passenger to freight
	b. Type of service, freight only to freight and passenger
9.	Change in class of loading for a freight elevator
10.	Change to hoistway a door or gate
11.	Installation/addition of hoistway-door combination mechanical lock and contacts
12.	Change in a suspension member, type, material, grade, size
13.	Change to driving machine
14.	Change in type of a hydraulic control valve
15.	Change to hydraulic plunger or cylinder
16.	Increase in hydraulic working pressure of more than 5%
17.	Change to car a oil buffer or bumper
18.	Change to terminal operating device
19.	Change or addition of a top-of-car operating device
20.	Change of speed governor
21.	Change or addition of a device protecting against unintended movement or ascending car overspeed
22.	Change of a safety device
23.	Change or addition of auxiliary power lowering operation
24.	Change or connection to emergency or standby power system
25.	Change in type of motion control
26.	Change in type of operation control
27.	Change to or addition of a car emergency signaling device
28.	Change to or addition of non-contact type reopening device
29.	Installation of a fire sprinkler in a machine/control room or hoistway

**Table SPS 318.1007-2  
Alterations for Escalators and Moving Walks**

Item	Scope of Work
<del>1.</del>	<del>Relocation of escalator or moving walk</del>
1.	Change to trusses
2.	Change to machinery spaces
3.	Increase of rated load or speed
<del>5.</del>	<del>Change to or addition of lighting access and electrical work</del>
4.	Installation/addition of skirt brushes

**Table SPS 318.1007-3  
Alterations for Dumbwaiters and Material Lifts**

Item	Scope of Work
1.	Increase in rated load
2.	Increase in rated speed
3.	Change to car size

**Table SPS 318.1007-4  
Alterations for Platform Lifts**

Item	Scope of Work
1.	Change to safeties or speed governors
2.	Change to jacks
3.	Change to or addition of machine room
4.	Change to hydraulic valves

**Note:** See chapter SPS 302 fee requirements.

**SPS 318.1008 Plan review actions. (1) PROCESSING.** The department shall review and make a determination on a request for plan approval within 15 business days, except as provided in ~~par. sub. (2)~~ (d).

(2) DETERMINATIONS. (a) *Conditional approval.* 1. If the department determines the application and plans for installation or alteration substantially comply with the provisions of this chapter, the department shall grant a conditional approval in writing.

2. Non-code-complying conditions stated in the conditional approval shall be corrected before or during installation.

3. A conditional approval issued by the department may not be construed as an assumption of any responsibility for the design or construction of the equipment.

4. The issuance of a conditional approval by the department does not alleviate the responsibility to correct any non-code-complying condition, element, or component not specifically enumerated in a conditional approval.

(b) *Revocation of approval.* The department may revoke any approval issued by department if the department determines any of the following:

1. That information provided for obtaining the approval contains false statements or misinterpretations of material fact.

2. That the approval was issued in error.

3. That the work performed is not consistent with the approval or is in violation with this chapter.

(c) *Denial of approval.* The request for plan approval shall be denied, in writing, if the department determines that the plans or the application do not substantially comply with the provisions of this chapter.

(d) *Hold.* 1. The request for plan approval shall be on hold if the department determines that the submittal is not of sufficient detail or missing information to determine whether the proposal conforms to this chapter.

2. If the request for plan approval is placed on hold, the permit-processing timeframe in par. (a) shall also be ~~hold-interrupted~~ until ~~such time~~the appropriate information is submitted to complete the review.

(e) *Expiration.* As required under s. 101.983 (1) (d), Stats., a approval issued under this chapter expires under any of the following circumstances:

1. If the work authorized under the approval does not commence within 6 months after the date on which the approval is issued.

2. If the work authorized under the approval is suspended or abandoned for 60 consecutive days at any time following the commencement of the work.

(f) *Resubmittal*. When an approval expires under par. (e), plans shall be resubmitted in accordance with s. SPS 318.1007.

**(3) REVISIONS TO APPROVED PLANS.** (a) 1. All proposed revisions and modifications which involve rules under this chapter and which are made to construction documents that have previously been granted approval by the department or agent municipality shall be submitted for review to the entity that granted the approval.

2. All revisions and modifications to the plans shall be approved in writing by the department or agent municipality prior to the work involved in the revision or modification being carried out.

**(4) EVIDENCE OF APPROVAL.** (a) 1. Where plan approval is required by this chapter, one set of plans bearing the stamp of ~~conditional approval, and~~ a copy of the specifications, and the approval-application form SBD-22 shall be kept at the installation or alteration site-

~~2. The plans and specifications shall be open to inspection by the department or its authorized representative.~~

~~(b) 1. The approval letter issued by the department shall be posted at or near the equipment space prior to initiating the installation or alteration.~~

~~2. The approval letter shall remain posted from the beginning of construction until an inspection determines compliance with this chapter for the approved scope of work.~~

**SPS 318.1009 Identification of conveyances. (1) REGISTRATION NUMBER.** All conveyances, ~~including those conveyances existing before the effective date of this rule, requiring that are required to have~~ a permit to operate shall be identified by a registration number supplied by the department or agent municipality.

**(2) POSTING.** The registration number shall be in a location that can be easily viewed by an inspector.

**SPS 318.1010 Product approvals. (1) VOLUNTARY APPROVAL.** (a) Materials, equipment and products regulated by this chapter may receive a written approval from the department indicating code compliance.

(b) 1. Approval of materials, equipment, and products shall be based on sufficient data, tests, and other evidence that prove the material, equipment, or product is in compliance with the standards specified in this code.

2. Tests, compilation of data, and calculations documenting compliance shall be provided by one of the following:

- a. A qualified independent third party.
- b. A Wisconsin-registered architect or engineer.

(2) REVIEW, APPROVAL, AND REVOCATION PROCESSES. (a) 1. Upon receipt of a fee and a written request, the department may issue an approval for a material, equipment, or product.

2. The department shall review and make a determination on an application for approval after receipt of all forms, fees, plans, and information required to complete the review.

3. A determination shall be made within 40 business days of receipt of all required materials.

(b) 1. The department may include specific conditions in issuing an approval, including an expiration date for the approval.

2. Violations of the conditions under which an approval is issued shall constitute a violation of this chapter.

(c) If the department determines that the material, equipment, or product does not comply with this code or the intent of this code, the request for approval shall be denied in writing.

(d) If an approved material, equipment, or product is modified, the approval shall be considered null and void, unless the material, equipment, or product is resubmitted to the department for review and approval is granted.

(e) 1. The department may revoke or deny an approval for any false statements or misrepresentations of relevant facts or data; unacceptability of a third party that provided any information on which the approval was based; or as a result of material, equipment, or product failure.

2. The department may reexamine an approved material, equipment, or product and issue a revised approval at any time.

3. The department may revoke an approval if the department determines that the material, equipment or product does not comply with this code or the intent of this chapter due to a change in the chapter or department interpretation of the chapter.

**SPS 318.1011 Inspections and permits to operate. (1) GENERAL.** Pursuant to s. 101.983 (2), Stats., no person may allow a conveyance to operate on property owned by the person unless the person holds a valid permit to operate for the conveyance, except ~~as provided in s. 101.983 (2) (e), Stats.~~ this requirement

~~Note: Section 101.983 (2) (e), Stats., reads: "This subsection [101.983 (2)] does not apply to elevators or dumbwaiters that serve individual residential dwelling units."~~

**Note:** Section 101.983 (3) of the Statutes reads as follows: "No owner of a residence may sell or otherwise transfer an individual residential dwelling unit that is served by a dumbwaiter or an elevator unless the owner provides the purchaser or transferee, prior to the sale or transfer of the property, with an inspection report from an elevator inspector licensed under s. 101.985 (3) that indicates that the dumbwaiter or elevator complies with this subchapter and any applicable rules promulgated under this subchapter."

(2) INITIAL ISSUANCE. (a) The department or agent municipality shall issue a permit to operate for the installation of a conveyance after an inspection determines and documents that the conveyance was installed and constructed in compliance with this chapter.

(b) The issuance of a permit to operate by the department or agent municipality shall occur within 10 business days of completing and filing the inspection report.

(3) PERMIT POSTING. The permit to operate shall be posted in the conveyance; or in the machine room, control room, or control space; or in a location approved by the department or agent municipality.

(4) PERMIT EXPIRATION. (a) Each conveyance shall be assigned an inspection anniversary date by the department or agent municipality.

(b) A permit to operate shall be valid for one year from the assigned inspection anniversary date.

(5) PERMIT RENEWAL. (a) 1. The renewal of a permit to operate shall be contingent upon one or more inspections that determine that an existing conveyance is in compliance with this chapter.

2. The inspection or inspections under subd. 1. shall be conducted no sooner than 120 days prior to the expiration of the permit to operate.

3. The owner of an existing conveyance for which a permit to operate was issued by the department or agent municipality may have the inspection or inspections for the renewal of the permit conducted by one of the following:

a. The department.

b. An independent licensed elevator inspector.

c. An agent municipality

4. If an independent licensed elevator inspector conducts the inspection or inspections under subd. 1, the renewal of the permit by the department or agent municipality shall be

contingent upon receipt of a report under sub. (9) and the recommendation to issue the permit to operate.

(b) The inspection to renew a permit to operate shall determine whether the conveyance is in compliance with applicable rules, including the condition and functionality of components.

(c) The inspection to renew a permit to operate shall include at least all of the following:

1. The items listed in ASME A17.1 sections 8.6 and 8.11.2 to 8.11.5, as modified by this chapter and depending upon the type of conveyance, for elevators, escalators, moving walks, dumbwaiters, and material lifts.

2. The items listed in ASME A18.1 section 10.2.2 and 10.3.1.1 to 10.3.1.7, as modified by this chapter and depending upon the type of conveyance, for platform lifts and stairway chairlifts.

(6) ALTERATION INSPECTIONS. (a) The alteration of a conveyance requiring plan approval as specified under s. SPS 318.1007 shall be inspected by the department or agent municipality before placing the conveyance back into service.

Note: Under section 101.983 (2) (e) and (3) of the Statutes, alterations, repairs, and replacements of components, short of a complete replacement of the conveyance, are not required to have plan approvals or installation inspections corresponding to such approvals.

(7) PREPARATIONS FOR DEPARTMENT INSPECTION. (a) *Notice of inspection.*

Where the installation or alteration inspection is to be conducted by the department or agent municipality, the owner or their agent of a conveyance for which an approval has been issued under SPS 318.1007 shall notify the department or agent municipality at least 5 business days in advance of when all work will be completed and the conveyance will be ready for inspection. If the equipment is not complete and ready for inspection at the scheduled time, all of the following may occur:

1. The inspection will be cancelled.

2. A cancellation fee will be assessed in accordance with ch. SPS 302.

3. The inspection will be rescheduled.

Note: All notifications under this paragraph should occur only with the consent of the installing contractor, in order to avoid the penalties in subds. 1. to 3.

(b) Arrangements. The owner or their agent shall make arrangements to enable the department or agent municipality to inspect all parts of the conveyance and any related equipment during the scheduled time. ~~If the equipment is not complete and ready for inspection at the scheduled time, all of the following may occur:~~

~~1. The inspection will be cancelled.~~

~~2. A cancellation fee will be assessed in accordance with ch. SPS 302.~~

~~3. The inspection will be rescheduled.~~

(c) Cancellation. Where a scheduled inspection is to be cancelled, the owner or their agent of a conveyance shall notify the department or agent municipality at least 2 business days before the scheduled time. Failure to do so may result in a cancellation fee assessed in accordance with ch. SPS 302.

(9) INSPECTION REPORT. (a) Where an inspection specified in sub. (5) is performed by other than an inspector of the department, the inspector shall file an inspection report with the department.

(b) Reports of inspections for conveyances shall be sent to the department in accordance with the department's electronic data interchange transfer guidelines, except as provided in par. (c), within 5 business days after completing the inspection unless additional time is authorized by the department.

**Note:** The Department will provide assistance at no charge regarding the use of the electronic data interchange system. The guidelines are available at the Department's Web site at [www.dps.wi.gov/sb/docs/sb-BoilerEdiGuidelines.pdf](http://www.dps.wi.gov/sb/docs/sb-BoilerEdiGuidelines.pdf).

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(c) The department's 10663-E inspection form may be used in lieu of the electronic data interchange system where approved in advance by the department.

**Note:** The Department forms required in this chapter are available for a nominal fee at telephone 800-DOC-SALE or 411 (Telecommunications Relay) or at [docsales@doa.state.wi.us](mailto:docsales@doa.state.wi.us), or at no charge at the Department's Web site at <http://dps.wi.gov> through links to Division of Industry Services forms.

(d) 1. The inspection report shall explain any violation or unsafe condition with references to specific code sections numbers. Recommendations to the owner of the conveyance to about any code violations shall be included in the report to the department.

2. Where an inspection report denotes conditions that pose an imminent threat to life or limb and require the conveyance to be taken out of service, the inspector shall notify the department immediately.

**Note:** The Department may be contacted at phone: (608) 266-7548 during normal business hours. The State Division of Emergency Management can be contacted at (800) 943-0003 during non-business hours.

3. The inspector shall provide the owner or owner's agent with a copy of the inspection report within 24 hours of the inspection.

(e) The inspection report shall be legible and complete.

(f) A verification that an inspection has been performed shall be posted on or near the inspected item.

**SPS 318.1012 Agent municipalities. (1) DESIGNATION.** (a) Pursuant to ss. 101.12 and 101.983, Stats., the department may designate a municipality as an agent of the department and thereby assign the authority to review and approve conveyance plans and specifications, conduct inspections and issue permits to operate those installations located within the municipality's boundaries limits.

(b) The plan review activities of a municipality that is not a 1<sup>st</sup> or 2<sup>nd</sup> class city shall be limited to parameters specified in s. 101.12 (3) (b), Stats.

**Note:** Section 101.12 (3) (b) of the Statutes reads as follows: "[The department shall] Accept the examination of essential drawings, calculations and specifications in accordance with sub. (1) for buildings containing less than 50,000 cubic feet of volume and alterations to buildings containing less than 100,000 cubic feet of volume performed by cities, villages, towns or counties, provided the same are examined in a manner approved by the department. The department shall determine and certify the competency of all such examiners."

**(2) CONDITIONS OF AGENT DESIGNATION.** (a) In addition to the statutory provisions under s. 101.12 (3) (a) ~~to (b)~~, Stats., all agent municipalities shall comply with all of the following:

1. Employ or contract with licensed elevator inspectors to perform plan review and inspection functions.

2. Forward to the department any information requested by the department relative to the examination of plans and inspections of conveyances.

3. Notify the department, in writing, at least 60 days prior to the date upon which the agent municipality intends to relinquish the plan examination and inspection responsibilities for equipment covered under this chapter.

**Note:** Section 101.12 (3) (a) 3. of the Statutes reads as follows: "A 2nd class city may apply for certification by the department for the purposes of this paragraph if that city employs at least one architect or one professional engineer who has been granted a certificate of registration under s. 443.10. The department shall certify a 2nd class city when the department determines and certifies the competency of all examiners employed by the city. The department shall review the competency of the examiners of a city that is certified under this paragraph on a regular basis and may revoke the certification of a city if the examiners do not meet standards specified by the department."

(b) An agent municipality may waive its jurisdiction for plan review and approval for any project. In that case, plans shall be submitted to the department for review and approval.

**SPS 318.1013 Accident reporting. (1) (a)** ~~Except as provided in par. (b), the malfunction of a conveyance that results in~~ Any bodily injury requiring more than first-aid treatment, ~~that occurs in conjunction with a conveyance,~~ shall be reported by the owner or their agent to the department or agent municipality within 2 business days of the ~~malfunction injury, except as provided in par. (b).~~

(b) 1. Any malfunction fatality under par. (a) ~~resulting in a fatality~~ shall be reported to the department or agent municipality within 24 hours of the ~~malfunction fatality~~.

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2. For the purposes of this section, the agent municipality is the entity that issued the permit to operate for the conveyance.

(c) At minimum, a report in an acceptable format shall be submitted to the department ~~or agent municipality.~~

**Note:** The department may be contacted at phone: (608) 266-7548 during normal business hours. The State Division of Emergency Management can be contacted at (800) 943-0003 during non-business hours. A copy of the elevator/escalator accident report form SBD-10782 and the minimum information needed is available on the Industry Services' website at <http://dsps.wi.gov/programs/industry-services>.

(2) The owner of a conveyance that ~~malfunctions resulting in causes a~~ bodily injury under sub. (1) may not remove or disturb the conveyance or any of its components or permit any such removal or disturbance prior to receiving authorization from the department or ~~authorized agent municipality,~~ except for the purpose of reducing further bodily harm or property damage.

(3) The owner of a conveyance that ~~malfunctions resulting in causes a~~ bodily injury under sub. (1) may not return or allow the return the conveyance back into operation or service until receiving authorization from the department or agent municipality that issued the permit to operate.

**SPS 318.1014 Petition for variance.** ~~The request for a~~ A petition for variance relating to a provision in this chapter may be submitted and shall be processed in accordance with ch. SPS 303. The petition for variance shall include, where applicable, a position statement from the fire department or local building official having jurisdiction, or both.

**Note:** Chapter SPS 303 requires the submittal of a petition for variance form (SBD 9890X) and a fee, and that an equivalency is established in the petition for variance which meets the intent of the rule being petitioned. Chapter SPS 303 also requires the Department to process regular petitions within 30 business days and priority petitions within 10 business days.

**Note:** The Department forms required in this chapter are available for a nominal fee at telephone 800-DOC-SALE or 411 (Telecommunications Relay), or at [docsales@doa.state.wi.us](mailto:docsales@doa.state.wi.us), or at no charge at the Department's Web site at [www.dsps.wi.gov](http://www.dsps.wi.gov) through links to Division of Industry Services forms.

**SPS 318.1015 Enforcement.** Where an agent municipality administers and enforces this chapter, ~~in conjunction with the a regulated item or activity shall be directed to or addressed by the agent municipality before requesting input from the department, the agent municipality's administration and enforcement shall be exercised in advance of the department's administration and enforcement.~~

**SPS 318.1016 Penalties.** Penalties for violations of this chapter are subject to and may be assessed in accordance with s. 101.988 (3), Stats.

**Note:** Section 101.988 (3) of the Statutes reads as follows: "Any person who violates this subchapter or rules promulgated under this subchapter may be fined not more than \$1,500 or imprisoned for not more than 30 days or both, except that, notwithstanding s. 939.61 (1), the owner of a private residence in which a conveyance is located may not be fined or required to pay a forfeiture to this state as a result of any violation involving that conveyance."

**Subchapter IV – Changes, Additions, or Omissions to ASME A17.1**

**SPS 318.1700 Changes, additions, or omissions to ASME A17.1. (1) GENERAL.** (a) Elevators, escalators, moving walks, and lifts shall be designed, constructed, installed, operated, maintained, tested, and inspected in accordance with ASME ~~standard~~ A17.1, except as otherwise provided in this chapter.

(b) Orchestra elevators and stage elevators shall be designed, constructed, installed, operated, maintained, tested and inspected in accordance with the following ASME ~~standard~~ A17.1 provisions:

*(place holder for delineation of A17.1 provisions or create some type of Table)*

**Table 318.XXXX  
Orchestra Elevator and Stage Elevator Provisions**

<i>Topic</i>	<i>Orchestra Elevator</i>	<i>Stage Elevator</i>
<i>Hoistway</i>		
<i>Pit</i>		
<i>Machine room</i>		
<i>Hoistway doors</i>		
<i>Landings</i>		
<i>Capacity</i>		
<i>Stop switch</i>		
<i>Platform</i>		
<i>Limits</i>		
<i>Speed</i>		
<i>?Maintenance, Testing?</i>		

**(2) CHANGES, ADDITIONS, AND OMISSIONS.** Changes, additions, or omissions to ASME A17.1 are specified in this subchapter and are rules of the department and are not requirements of ASME A17.1.

**Note:** The sections in this subchapter are generally numbered to correspond with the section numbering in ASME A17.1. For example, section SPS 318.1702 corresponds to ASME A17.1 *Part 2*.

**SPS 318.1701 Scope and application.** The requirements in ASME A17.1 section 1.1 are not included as part of this chapter.

**Note:** See ss. SPS 318.1001 to 318.1003 for purpose, scope and application requirements.

**Note:** See ASME A18.1 and subchapter VI for requirements relating to vertical and inclined platform lifts, and stairway chairlifts serving public buildings and places of employment.

**SPS 318.1702 Electric elevators. (1) PIT DRAINS AND SUMPS.** (a) This is a department informational note to be used under ASME A17.1 section 2.2.2.3:

**Note:** See ch. SPS 362 of the building code for hoistway drain and sump requirements for elevators in commercial buildings.

(b) The requirements in ASME A17.1 section 2.2.2.5 are not included as part of this chapter.

**Note:** See chapter SPS 362 of the building code for hoistway drain and sump requirements for elevators in commercial buildings.

(c) This is a department informational note to be used under ASME A17.1 section 2.7.2.1:

**Note:** See section SPS 382.33 for prohibition of sumps and sump pumps in elevator machine rooms for elevators in commercial buildings.

**(2) MACHINE ROOMS AND MACHINERY SPACES.** (a) *Access to machine rooms and machinery spaces.* This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.1: Except in one- or two-family dwellings, access to a machine room, machinery space, control room or control space shall not be through any toilet room, locker room, sleeping room or similar room or space.

(b) *Access doors and openings.* 1. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.1: The entrance to a machine room or control room shall be identified with a permanent sign. The lettering on the sign shall be at least one-inch high and state “elevator machine room”, or equivalent wording.

2. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.3: Hoistway access doors shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(c) *Headroom in machine rooms, machinery spaces, control rooms and control spaces.* This is a department rule in addition to A17.1 section 2.7.4.1: For elevators installed to serve one- and two-family dwellings, headroom in these spaces may comply with A17.1 section 5.2.1.7.1.

(d) *Temperature and humidity.* This is a department informational note to be used under ASME A17.1 section 2.7.9.2.

**Note:** See the building code for requirements prohibiting the transfer of contaminated air in commercial buildings.

(e) *Equipment allowed.* This is a department rule in addition to A17.1 section 2.8.1: Access to machinery, equipment, wiring, piping, etc., not used directly in connection with the elevator shall not be permitted through hoistways, machine rooms, machinery spaces, control rooms and control spaces.

(f) *Sprinklers.* This is a department rule in addition to A17.1 section 2.8.3.3.2: Shunt trip system is not required for elevators installed to serve one- and two-family dwellings.

(g) *Illumination at landing sills.* This is a department rule in addition to A17.1 section 2.11.10.2: Landing sills are not required to be illuminated at all times for elevators installed to serve one- and two-family dwellings.

**(3) HOISTWAY DOOR UNLOCKING DEVICES.** These are department rules in addition to the requirements in ASME A17.1 section 2.12.6.2:

(a) Where the elevator has a machine room, control room or control space accessed from a floor level of the building, the unlocking device operating key shall be located adjacent to the elevator disconnecting means. A label at the key shall state: "Hoistway door unlocking key. Place the disconnecting means in the off position and lock it, prior to using the hoistway door unlocking key."

(b) Where the elevator has an inspection and test panel without a machine room, control room or control space, the unlocking device operating key shall be located in the key box required by sub. (8) (c). A label inside the key box or on the key must identify the key and state: "Place the disconnecting means in the off position and lock it, prior to using the hoistway door unlocking key."

**(4) CAPACITY AND LOADING.** This is a department informational note to be used under ASME A17.1 section 2.16.1.1:

**Note:** See chapter SPS 362 of the building code for stretcher-sized elevator requirements in some commercial buildings.

**(5) MARKING PLATES FOR SAFETIES.** This is a department rule in addition to the requirements in ASME A17.1 section 2.17.14: The manufacturer's model number shall also be marked on the metal plate.

**(6) MARKING PLATES FOR SPEED-GOVERNORS.** This is a department rule in addition to the requirements in ASME A17.1 section 2.18.9: The manufacturer's model number shall also be marked on the metal plate.

**(7) ASCENDING CAR OVERSPEED AND UNINTENDED CAR MOVEMENT PROTECTION.** Where an existing elevator is required to comply with A17.1 section 2.19 in A17.1 sections 8.7.2.16.1(h), 8.7.2.16.4(f), 8.7.2.17.2(b)(11), 8.7.2.20, 8.7.2.25.1(a), 8.7.2.25.2(b) or 8.7.2.27.5(h), and the depth of an existing pit does not allow for a platform guard of 48" in height, substitute the following wording for the second sentence in ASME A17.1 section 2.19.2.2(b):

(a) The stopped position of the car shall be limited in both directions to the height of the platform apron, as measured from the landing sill to the car sill.

(b) The platform apron shall not be shorter than the pit depth minus any of the following:

1. One-inch bottom runby. Car buffer(s) shall be raised to provide this. See 2.4.2.1(b).
2. Car buffer stroke.
3. One-inch clearance between bottom of the platform apron and pit floor when buffers are fully compressed.

(c) The area of the pit floor from the pit wall or fixed toe guard out to 3 inches beyond the vertical plane at the bottom of the car platform apron shall be marked with alternating 4-inch diagonal red and white stripes.

(d) A sign shall meet all of the following:

1. Be located on the wall or fixed toe guard approximately 12 inches above the pit floor.

2. State "Danger No Clearance Between Car Platform Guard And Pit Floor" in letters not less than 2 inches in height.

3. Be of such material and construction that the letters and figures stamped, etched, cast or otherwise applied to the face shall remain permanently and readily legible.

4. The criteria in ANSI Z535.4.

(e) Pit lighting requirements of A17.1 section 2.2.5.1 for of not less than 10 footcandles shall apply to all striping and signage.

(f) Restricted opening of hoistway and car doors shall conform to A17.1 section 2.12.5.

**(8) EMERGENCY OPERATION AND SIGNALING DEVICES.** (a) *Emergency or standby power system.* This is a department informational note to be used under ASME A17.1 section 2.27.2:

**Note:** Standby power requirements for elevators in healthcare facilities are found in the National Electrical Code, Article 517 as adopted under ch. SPS 316. In other types of commercial buildings stand-by power requirements are found in the building code under IBC chapter 62.

(b) *Firefighters emergency operation.* 1. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.3 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1 or 2.27.3.2.2(a) at any elevator lobby, other than at the designated level, shall cause all elevators that serve that lobby, and any associated elevator of a group automatic operation, to be returned nonstop to the designated level.

2. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.4 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1(a) that is located at the designated level, shall cause all elevators serving that lobby to be recalled to the alternate level, unless Phase I emergency recall is in effect.

3. These are department rules in addition to the requirements in ASME A17.1 section 2.27.8:

a. An additional set of switch keys shall be kept in a lockable metal box mounted in a conspicuous location adjacent to the main elevator entrance at the designated level landing. The box shall be openable only by the fire department, police department, elevator inspector or other authorized personnel. This does not prohibit additional keys from being placed in other approved locations.

b. Where the elevator has a machine room, control room or control space, the key box shall also contain key(s) to access the machine room, control room or control space, labeled for its use.

c. Where the elevator has an inspection and test panel without a machine room, control room or control space, the key box shall also contain the key for the lock used to secure the main disconnect, car light disconnect and disconnects for any other elevator utilization equipment. A label inside the key box must provide directions to the location of the disconnects including room number where applicable.

(c) *One- and two-family dwellings.* The requirements of 2.27.3 through 2.27.9 apply to elevators serving one- or two-family dwellings to the extent that fire-fighters emergency operation is provided.

**SPS 318.1703 Hydraulic Elevators. (1) CYLINDERS BELOW GROUND.** Substitute the following wording for the requirements in A17.1 section 3.18.3.8.3(b):

(a) The material must completely surround the cylinder including the bottom

(b) The material must be visible at the pit floor.

(c) A means must be provided between the material and jack to monitor the space for the entrance of water. The means to monitor shall comply with all of the following:

1. Extend from above the pit floor to at least the bottom of the jack.

2. Be open on the bottom.

3. Be exposed and visible at the pit floor

4. Be capped, plugged or otherwise sealed with a removable means.

(d) The space between the material, the means to monitor and the jack must be sealed to the prevent the entrance of water from the pit.

(e) The material must be one of the following:

1. Rigid, non-metallic material such as PVC or HDPE of a schedule that will withstand the installation process. Monitoring for the entrance of water is not required at this time.

2. Flexible material approved by the department. Monitoring for the entrance of ground water must be performed according to the following schedule with findings recorded in the maintenance record:

a. At the time of the acceptance inspection.

b. Quarterly for the first two years corresponding with quarterly checking of oil usage required by s. SPS 318.1708 (2).

c. Annually thereafter.

(f) If at any time water is found that cannot be explained by some type of accidental entry, the material must be replaced within 6 months.

**(2) ANTI-CREEP OPERATION.** Substitute the following wording for the requirements in A17.1 section 3.26.3.1.2: The anti-creep device shall maintain the car within 1/2 inch of the landing irrespective of the position of the hoistway door.

**SPS 318.1705 (1). LIMITED USE LIMITED APPLICATION ELEVATORS.** Substitute the following wording for A17.1 section 5.2.1.7: Equipment shall be permitted to be located in rooms containing other equipment essential for the operation of the building.

**(2) PRIVATE RESIDENCE ELEVATORS.** (a) This is a department rule in addition to the requirements of ASME A17.1 section 5.3: Machinery spaces, machine rooms, control spaces and control rooms where provided shall conform to ASME A17.1 section 5.2.1.7.

(b) This is a department rule in addition to the requirements of ASME A17.1 section 5.3.1.8.1:

1. Except as specified in subd. 2., the top of the car enclosure shall comply with the load requirements specified under ASME A17.1 section 2.14.1.6.

2. A car enclosure shall be permitted to have a top that is non-load bearing provided the top of the car enclosure is not needed to be accessed to service, maintain or inspect any part of the elevator equipment and contains a sign meeting ANSI Z535.4 indicating the car top is not load-bearing.

(c) This is a department rule in addition to the requirements of A17.1 section 5.3.1.7.2: Where the car door or gate is of the accordion type, a maximum 5-inch clearance is permitted between the hoistway side of the hoistway door and the mid point of the nearest and farthest point of the landing side of the accordion car gate.

Add a Code or a Note stating the measurement is taken where the distance between hoistway door and car door or gate is the greatest.

OR Council might consider this alternative code:

Replace the 3 & 5 inch rule with ¾" & [3.5 or 4 inches] rule as measured from the face of the hoistway door and to the external surface of the car gate (consistent with the 3.6" minimum diameter of for the 5<sup>th</sup> Percentile of 0-3 year olds- the most conservative design criteria provided in the University of Michigan study)

- Add a strength/deflection requirement to all gates (currently missing from 5.3.1)
- Continue to permit accordion and scissors style gates that reject a ball of [3.5 or 4] inch diameter, provided the configuration meets the hoistway door to gate clearance requirements
- Permit use of a SIL-rated light curtain(s) that will detect the passing of a 3.5/4 inch sphere as an alternate means of achieving the new required clearances (on car, on landings, or both)

(d) The requirements of ASME A17.1 section 5.3.1.16.2(i)(2) are not included as part of this chapter.

(e) Substitute the following wording for the requirements in A17.1 section 5.3.1.19: The elevator shall be provided with a hard wired telephone or a telephone utilizing wireless, cellular or other technology capable of operating at all points of elevator travel. The telephone must be available in the elevator, charged (if battery powered) and operational any time the elevator is in use. If the telephone is not a hard-wired land line type, the elevator must include a sign informing riders that a telephone is required to be present while operating the elevator.

**SPS 318.1709 Reference codes, standards, and specifications.** (1) This is a department rule in addition to the requirements in ASME A17.1 Part 9: Any code or standard listed in section 9.1 without a specific year of issuance shall mean the published edition of that code or standard which was available on October 21, 2013, except where a different edition is specified directly or indirectly in the building code.

(2) Substitute the following in ASME A17.1 section 9.1 and in any other ASME A17.1 section where the listed reference appears:

(a) Chapters SPS 361 to 366 for the reference to ICC/ANSI A117.1.

(b) Chapter SPS 316 for the reference to NFPA 70.

?(c) ASME 17.6-2010 for the reference to ASME 17.7.?

?(d) ASME 17.7-2010 for the reference to ASME 17.7.?

#### **Subchapter V – Changes, Additions, or Omissions to ASME A18.1**

**SPS 318.1800 Platform lifts and stairway lifts.** (1) GENERAL. Platform lifts, inclined platform lifts, and stairway lifts shall be designed, constructed, installed, operated, maintained, tested, and inspected in accordance with ASME ~~standard A~~18.1, except as otherwise provided in this chapter.

**Note:** The commercial building code, chapters SPS 361 to 366, establishes standards for buildings and components that may be associated with platform lifts and stairway lifts, including ramps, ramp slopes, stairway egress width, and the location, clearances or position of controls for people with disabilities.

(2) CHANGES, ADDITIONS, AND OMISSIONS. Changes, additions, or omissions to ASME A18.1 are specified in this subchapter and are rules of the department and are not requirements of ASME A18.1.

**Note:** The sections in this chapter are generally numbered to correspond with the section numbering in ASME A18.1. For example, section SPS 318.1801 corresponds to ASME A18.1 Part-Section 1.

**SPS 318.1801 Scope and Purpose.** (1) The requirements in ASME A18.1 sections ~~A18.1~~ 1.1 and ~~A18.2-1.2~~ are not included as part of the chapter.

(2) Substitute the following definitions for the corresponding definitions specified in ASME A18.1 section ~~ASME A18.31.3~~:

(a) “Authority having jurisdiction” means the department of safety and professional services, except as designated under s. SPS 318.1012.

(b) “Authorized personnel” means ? *How is the term used in the standard and does it need to reflect the statutory and SPS 305 credentialing provisions?*

(c) “Building code” means chapters SPS 361 to 366.

(?) “*Inspection and tests*” *Do these definitions need to be revised or eliminated in light of what modifications occur relative to section 10?*

(3) REFERENCE CODES, STANDARDS, AND SPECIFICATIONS. (a) This is a department rule in addition to the requirements in ASME A18.1 section 1.5: Any code or standard listed in Table 1.5-1 without a specific year of issuance shall mean the published edition of that code or standard that was available on October 31, 2011, except where a different edition is specified directly or indirectly in the building code.

(b) Substitute ch. SPS 316 for the reference to NFPA 70 in ASME A18.1 Table 1.5-1 and in any other ASME A18.1 section where that reference appears.

**SPS 318.1802 Vertical platform lifts. (1) RUNWAYS.** These are department exceptions to the requirements in ASME A18.1 section 2.1.1.3:

(a) Glazing and panels in doors at runway entrances may ~~be not~~ be located more than ~~one~~ 1/4 inches from the platform sill.

(b) Framing for glazing or panels in doors at runway entrances shall be beveled at least 45 degrees.

**(2) ILLUMINATION.** Substitute the following wording for the requirements in ASME A18.1 section 2.6.6.3: An auxiliary illumination source shall be provided to ~~provide~~ give general illumination of not less than 0.2 foot candles on the floor and controls ~~shall be provided~~. The auxiliary illumination system shall function according to all of the following:

(a) Activate when normal illumination fails.

(b) Utilize not less than two lamps.

(c) Provide illumination for at least 90 minutes when a lift that is designed to operate up and down after normal power fails.

(d) Provide illumination for at least 4 hours when a lift that is not designed to operate up and down after normal power fails.

*(place holder for Wisconsin modifications)*

**(3) ?EMERGENCY SIGNALS.?**

**(4) BATTERY POWER.** Substitute the following wording for the requirements in ASME A18.1 section 2.12.1.1: A lift ~~equipped with~~ shall be permitted to have a rechargeable battery power system capable of cycling the lift under full load for at least 2 cycles ~~minimum~~ after the building power is removed ~~shall be permitted~~.

**SPS 318.1808 Hydraulic driving means.** These are department rules in addition to the requirements in ASME A18.1 section 8.1:

**(1) SHUTOFF VALVES.** (a) A manually operated shutoff valve shall be provided between the hydraulic machines and the hydraulic cylinder.

(b) The shutoff valve under par. (a) shall be located outside the hoistway ~~(? or runway?)~~ and adjacent to the hydraulic machine on a hydraulic platform lift with a separate machine room.

**(2) PUMP RELIEF VALVE.** (a) *General.* Each pump or group of pumps shall be equipped with one or more relief valves conforming to all of the following, except as specified in par. (b):

1. Be located between the pump and the check valve.

2. Be of such a type and installed in the bypass connection so that the valve cannot be shut off from the hydraulic system.

3. Be of sufficient size, individually or accumulatively, to pass the maximum rated capacity of the pump without raising the pressure more than 50% above the working pressure.

4. Be sealed after being set to the correct pressure.

(b) *No relief valve.* A relief valve is not required for centrifugal pumps driven by induction motors, provided the shut-off, or maximum pressure that the pump can develop, is not greater than 135% of the working pressure at the pump.

(3) CHECK VALVE. A check valve shall be provided that ~~it~~ will hold the platform lift with the rated load at any point if either of the following occurs:

(a) The pump stops and the down valves are closed.

(b) The maintained pressure drops below the minimum operating pressure.

(4) PRESSURE GAUGE FITTINGS. A pressure gauge fitting with a shutoff valve shall be provided at either ~~one~~ of the following locations:

(a) On the cylinder side of the check valve.

(b) Adjacent to the hydraulic control valve.

(5) TYPE TESTS, CERTIFICATION, AND MARKING PLATES FOR CONTROL VALVES. (a) *Engineering tests and certification process.* Each type or model and make of hydraulic control valve shall be subjected to the engineering tests and to the certification process ~~as~~ specified in ASME A17.1 section 8.3.5, except ASME A17.1 section 8.3.5.3.1 does not apply.

(b) *Hydraulic controls.* Hydraulic control valves shall be plainly marked in a permanent manner with all of the following information:

1. The certifying organization's name or identifying symbol.

2. The name, trademark, or file number by which the organization that manufactured the product can be identified.

3. Type designation.

4. Component-rated pressure.

5. Electrical coil data.

(6) OVERSPEED VALVES. When provided, overspeed valves and their connections and attachments shall conform to ASME A17.1 section 3.19.4.7.

SECTION 3. SPS 362.1109 is created to read:

**SPS 362.1109 Lifts.** (1) Substitute the following wording for the requirements in ICC/ANSI A117.1 section 410.2.1 as referenced by IBC section 1109.7:

(a) ~~Except as provided in par. (b).~~ Doors and gates shall be low energy power operated doors or gates complying with A117.1 section 404.3. Except as provided in par. (b). Doors shall remain open for 20 seconds minimum. On lifts with one door or with doors on opposite ends, the end door clear opening width shall be 32 inches minimum. On lifts with one door on a narrow end and one door on a long side, the end door clear opening width shall be 36 minimum. Side door clear opening width shall be 42 inches minimum. Where a door is provided on a long side and on a narrow end of a lift, the side door shall be located with either the strike side or the hinge side in the corner furthest from the door on the narrow end.

(b) 1. Doors or gates shall be permitted to be of the self-closing, manual type, where that door or gate provides access to a narrow end of the platform that serves only one landing. This exception does not apply to doors or gate with ramps.

2. Lifts serving two landings maximum and having doors or gates on adjacent sides shall be permitted to have self closing manual doors or gates provided that the side door or gate is located with the strike side furthest from the end door. This exception does not apply to door or gates with ramps.

(2) Substitute the following wording for the requirements in ICC/ANSI A117.1 section 410.5 as referenced by IBC section 1109.7: Clear floor space of platform lifts shall comply with one of the following:

(a) Platforms lifts with a single door or with doors on opposite ends shall provide a clear floor width of 36 inches minimum and a clear floor depth of ~~48~~ 54 inches minimum.

(b) Platform lifts with doors on adjacent sides shall provide a clear floor width of 42 inches minimum and clear floor depth of 60 minimum.

SECTION 4. SPS 366.0605 is created to read:

**SPS 366.0605 Lifts.** (1) Substitute the following wording for the requirements in ICC/ANSI A117.1 section 410.2.1 as referenced by IBC section 1109.7:

(a) ~~Except as provided in par. (b).~~ Doors and gates shall be low energy power operated doors or gates complying with A117.1 section 404.3. except as provided in par. (b). Doors shall remain open for 20 seconds minimum. On lifts with one door or with doors on opposite ends, the

end door clear opening width shall be 32 inches minimum. On lifts with one door on a narrow end and one door on a long side, the end door clear opening width shall be 36 minimum. Side door clear opening width shall be 42 inches minimum. Where a door is provided on a long side and on a narrow end of a lift, the side door shall be located with either the strike side or the hinge side in the corner furthest from the door on the narrow end.

(b) 1. Doors or gates shall be permitted to be of the self-closing, manual type, where that door or gate provides access to a narrow end of the platform that serves only one landing. This exception does not apply to doors or gate with ramps.

2. Lifts serving two landings maximum and having doors or gates on adjacent sides shall be permitted to have self closing manual doors or gates provided that the side door or gate is located with the strike side furthest from the end door. This exception does not apply to door or gates with ramps.

(2) Substitute the following wording for the requirements in ICC/ANSI A117.1 section 410.5 as referenced by IBC section 1109.7: Clear floor space of platform lifts shall comply with one of the following:

(a) Platforms lifts with a single door or with doors on opposite ends shall provide a clear floor width of 36 inches minimum and a clear floor depth of ~~48~~ 54 inches minimum.

(b) Platform lifts with doors on adjacent sides shall provide a clear floor width of 36 inches minimum and clear floor depth of 60 minimum.

*File reference: SPS 318/Public Hearing Working Draft 3*

**Proposed language for SPS 318.17xx to address  
ASME A17.1 (2013)  
12-3-2013**

The following were used to prepare this draft:

- ASME A17.1, 2007, 2010 and 2013 editions
- Comparison of 2010 and 2013 editions
- Current SPS 318.1700 - 1709
- Wis. CSCC comments to 2007 – 2010 - 2013 comparison documents
- 2003 ICC/ANSI A117.1 Accessibility Standard.
- Current IBC and Commentary
- Current IEBC

**SPS 318.1700 Changes, additions or omissions to ASME A17.1.** Changes, additions or omissions to the ASME A17.1 are specified in this subchapter are rules of the department and are not requirements of the ASME A17.1.

**Note:** The sections in this chapter are generally numbered to correspond with the section numbering in the ASME A17.1; e.g., s. SPS 318.1702 corresponds to ASME A17.1 Part 2.

**SPS 318.1701 Scope and Application.** The requirements in ASME A17.1 section 1.1 are not included as part of this chapter.

**Note:** See ss. SPS 318.XXXX to 318.XXXY for purpose, scope and application requirements.

**Note:** See ASME A18.1 and subch. VI for requirements relating to vertical and inclined platform lifts, and stairway chairlifts serving public buildings and places of employment.

**SPS 318.1702 Electric elevators.**

(1) PIT DRAINS AND SUMPS.

(a) This is a department informational note to be used under ASME A17.1 section 2.2.2.3:

**Note:** See ch. SPS 362 of the building code for hoistway drain and sump requirements [for elevators in commercial buildings](#).

(b) The requirements in ASME A17.1 section 2.2.2.5 are not included as part of this chapter.

**Note:** See ch. SPS 362 of the building code for hoistway drain and sump requirements [for elevators in commercial buildings](#).

(c) This is a department informational note to be used under ASME A17.1 section 2.7.2.1:

**Note:** See s. SPS 382.33 for prohibition of sumps and sump pumps in elevator machine rooms [for elevators in commercial buildings](#).

(2) MACHINE ROOMS AND MACHINERY SPACES.

(a) *Access to machine rooms and machinery spaces.* These are department rules in addition to the requirements in ASME A17.1 section 2.7.3.1: [Except in one- or two-family dwellings](#), access to a machine room, machinery space, control room or control space shall not be through any toilet room, locker room, sleeping room or similar room or space.

**Comment:** add language for dwellings, clarify commercial language.

(b) *Access doors and openings.*

1. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.1: The entrance to a machine room or control room shall be identified with a permanent sign. The lettering on the sign shall be at least one-inch high and state "elevator machine room", or equivalent wording.

2. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.3: Hoistway access doors shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(c). *Headroom in machine rooms, machinery spaces, control rooms and control spaces.* This is a department rule in addition to A17.1, 2.7.4.1: For elevators

installed to serve one- and two-family dwellings, headroom in these spaces may comply with A17.1, 5.2.1.7.1.

**Comment: allows machine rooms for full-size elevators in residences to ceilings meeting LULA code of 79" therefore they will meet electrical code of 78".**

(d) *Temperature and humidity.* This is a department informational note to be used under ASME A17.1 section 2.7.9.2.

**Note:** See the building code for requirements prohibiting the transfer of contaminated air in commercial buildings.

(e) *Equipment Allowed.* This is a department rule in addition to A17.1, 2.8.1: Access to machinery, equipment, wiring, piping, etc., not used directly in connection with the elevator shall not be permitted through hoistways, machine rooms, machinery spaces, control rooms and control spaces.

**Comment: Moved here from above.**

(f) *Sprinklers.* This is a department rule in addition to A17.1, 2.8.3.3.2: Shunt trip system is not required for elevators installed to serve one-and two-family dwellings.

**Comment: allows sprinklers to be installed in one- and two-family dwellings without requiring shunt trip disconnect as it is not required for residential elevators.**

(g) *Illumination at Landing Sills.* This is a department rule in addition to A17.1, 2.11.10.2: Landing sills are not required to be illuminated at all times for elevators installed to serve one-and two-family dwellings.

**Comment: allows landing sill illumination in one- and two-family dwellings to be the same as for residential elevators.**

(3) HOISTWAY DOOR UNLOCKING DEVICES. This is a department rule in addition to the requirements in ASME A17.1 section 2.12.6.2:

(a) Where the elevator has a machine room, control room or control space accessed from a floor level of the building, the unlocking device operating key shall be located adjacent to the elevator disconnecting means. A label at the key shall state: "Hoistway door unlocking key. Place the disconnecting means in the off

**ADD:** position and lock it, prior to using the hoistway door unlocking key."

(b) Where the elevator has an inspection and test panel without a machine room, control room or control space, the unlocking device operating key shall be located in the key box required by SPS 318.1702(8)(c). A label inside the key box or on the key must identify the key and state: "Place the disconnecting means in the off

**ADD:** position and lock it, prior to using the hoistway door unlocking key."

(4) CAPACITY AND LOADING. This is a department informational note to be used under ASME A17.1 section 2.16.1.1:

**Note:** See ch. SPS 362 of the building code for stretcher-sized elevator requirements in some commercial buildings.

(5) MARKING PLATES FOR SAFETIES. This is a department rule in addition to the requirements in ASME A17.1 section 2.17.14: The manufacturer's model number shall also be marked on the metal plate.

(6) MARKING PLATES FOR SPEED-GOVERNORS. This is a department rule in addition to the requirements in ASME A17.1 section 2.18.9: The manufacturer's model number shall also be marked on the metal plate.

**REMOVE (7) here and renumber. Fix this as a change to A17.1, Section 9.1 for NFPA 70 (NEC):**

~~(7) OPERATING DEVICES AND CONTROL EQUIPMENT. This is a department rule in addition to the requirements in ASME A17.1 section 2.26.4.1: All electrical equipment and wiring shall comply with ch. SPS 316, Electrical Code.~~

MOVE here from the current 318 section on alterations. I'm not sure if this is proper, or if this should be in 318.1708 as several changes to A17.1, 8.7 instead of 318.1702 as a change to A17.1, 2.19:

(7) ASCENDING CAR OVERSPEED AND UNINTENDED CAR MOVEMENT PROTECTION.

Where an existing elevator is required to comply with A17.1, 2.19 in A17.1, 8.7.2.16.1(h), 8.7.2.16.4(f), 8.7.2.17.2(b)(11), 8.7.2.20, 8.7.2.25.1(a), 8.7.2.25.2(b) or 8.7.2.27.5(h), and the depth of an existing pit does not allow for a platform guard of 48" in height, substitute the following wording for the second sentence in ASME A17.1, 2.19.2.2(b): The stopped position of the car shall be limited in both directions to the height of the platform apron, as measured from the landing sill to the car sill.

(a) The platform apron shall not be shorter than the pit depth minus the following:

1. 1" bottom runby. Car buffer(s) shall be raised to provide this. See 2.4.2.1(b).
2. car buffer stroke.
3. 1" clearance between bottom of platform apron and pit floor when buffers are fully compressed.

(b) The area of the pit floor from the pit wall or fixed toe guard out to 3" beyond the vertical plane at the bottom of the car platform apron shall be marked with alternating 4" diagonal red and white stripes.

(c) A sign shall

1. be located on the wall or fixed toe guard approx. 12" above the pit floor.
2. state "Danger No Clearance Between Car Platform Guard And Pit Floor" in letters not less than 2" in height.
3. be of such material and construction that the letters and figures stamped, etched, cast or otherwise applied to the face shall remain permanently and readily legible.
4. meet ANSI Z535.4.

(d) Pit lighting requirements of A17.1, 2.2.5.1 for of not less than 10 fc shall apply to all striping and signage.

(e) Restricted opening of hoistway and car doors shall conform to A17.1, 2.12.5.

Comment: This eliminates the need for many repetitive petitions for variance.

(8) EMERGENCY OPERATION AND SIGNALING DEVICES.

REMOVE (a) here and renumber. Council agreed not to modify emergency communications for new installations.

~~(a). Emergency Communications.~~

(a). *Emergency or standby power system.* This is a department informational note to be used under ASME A17.1 section 2.27.2:

**Note:** Standby power requirements for elevators in healthcare facilities are found in the National Electrical Code, Article 517 as adopted under ch. SPS 316. In other types of commercial buildings stand-by power requirements are found in the building code under IBC chapter 62.

ADD and renumber:

(b). *Firefighters Emergency Operation.*

1. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.3 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1 or 2.27.3.2.2(a) at any elevator lobby, other than at the designated level, shall cause all elevators that serve that lobby, and any associated elevator of a group automatic operation, to be returned nonstop to the designated level.

2. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.4 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1(a) that is located at the designated level, shall cause all elevators serving that lobby to be recalled to the alternate level, unless Phase I emergency recall is in effect.

3. This is a department rule in addition to the requirements in ASME A17.1 section 2.27.8: An additional set of switch keys shall be kept in a lockable metal box mounted in a conspicuous location adjacent to the main elevator entrance at the designated level landing. The box shall be openable only by the fire department, police department, **elevator inspector** or other authorized personnel. This does not prohibit additional keys from being placed in other approved locations.

**Comment: changed language some, to have the same meaning.**

- a. Where the elevator has a machine room, control room or control space, the key box shall also contain key(s) to access the machine room, control room or control space, labeled for its use.
- b. Where the elevator has an inspection and test panel without a machine room, control room or control space, the key box shall also contain the key for the lock used to secure the main disconnect, car light disconnect and disconnects for any other elevator utilization

**CHANGE per Council:**equipment. A label inside the key box must **provide directions to the location of the disconnects including room number where applicable.**

**CHANGE per Council:**

(c). **One- and two-family dwellings.** The requirements of 2.27.3 through 2.27.9 apply to elevators serving one- or two-family dwellings to the extent that fire-fighters emergency operation is provided.

**Comment: To address differences in application of commercial-type elevators in commercial and one- and two-family dwellings.**

### **SPS 318.1703 Hydraulic Elevators.**

(1). **CYLINDERS BELOW GROUND.** Substitute the following wording for A17.1, 3.18.3.8.3(b):

- (a). The material must completely surround the cylinder including the bottom
- (b). The material must be visible at the pit floor.
- (c). A means must be provided between the material and jack to monitor the space for the entrance of water. The means to monitor shall:
  1. extend from above the pit floor to at least the bottom of the jack.
  2. be open on the bottom.

**CHANGE/ADD per Council:**

3. **be exposed and visible at the pit floor**

4. **be capped, plugged or otherwise sealed with a removable means.**

(d). The space between the material, the means to monitor and the jack must be sealed to prevent the entrance of water from the pit.

(e). The material must be one of the following:

1. rigid, non-metallic material such as PVC or HDPE of a schedule that will withstand the installation process. Monitoring for the entrance of water is not required at this time.
2. flexible material approved by the department. Monitoring for the entrance of ground water must be according to the following schedule with findings recorded in the maintenance record.
  - a. at the time of the acceptance inspection.
  - b. quarterly for the first two years corresponding with quarterly checking of oil usage required by SPS 318.1708(2).
  - c. annually thereafter.

(f). If at any time water is found that cannot be explained by some type of accidental entry, the material must be replaced within 6 months.

**Comment: To clarify the materials commonly accepted (PVC, HDPE) address differences in application of commercial-type elevators in commercial and one- and two-family dwellings.**

(2). ANTI-CREEP OPERATION. Substitute the following wording for A17.1 section 3.26.3.1.2:  
The anti-creep device shall maintain the car within 1/2 inch of the landing irrespective of the position of the hoistway door.

~~SPS 318.1705(1). Substitute the following wording for A17.1, 5.2.1.2:~~

~~REMOVE (1) AND (2) here and renumber [to be addressed as a change to SPS 362.3004(2)]:~~

~~(1). Pits for LULA elevators equipped with Phase I firefighters emergency operation shall comply with the building code.~~

~~(2). Pits for LULA elevators not equipped with firefighters emergency operation shall have permanent provisions to prevent accumulation of ground water in the pit. This may include a drain, a sump with a pump or for pit of 14" or less, water-tight construction of pit floor and walls.~~

Comment: This addresses the fact that LULA pits are small without much room for a large sump. Also, most LULA pits are very shallow reducing the chance ground water will enter.

**SPS 318.1705(1). LIMITED USE LIMITED APPLICATION ELEVATORS.** Substitute the following wording for A17.1, 5.2.1.7: Equipment shall be permitted to be located in rooms containing other equipment essential for the operation of the building.

Comment: This addresses the conflict in 5.2.1.7. It says LULA machine rooms have to meet the codes for full-size machine rooms including not sharing space with other equipment except where they share space with other equipment.

ADD - From current code with some changes and renumber

**SPS 318.1705(2) PRIVATE RESIDENCE ELEVATORS.**

(a) This is a department rule in addition to the requirements of ASME A17.1 section 5.3: Machinery spaces, machine rooms, control spaces and control rooms where provided shall conform to ASME A17.1 section 5.2.1.7.

(b) This is a department rule in addition to the requirements of ASME A17.1 section 5.3.1.8.1:

1. Except as specified in subd. 2., the top of the car enclosure shall comply with the load requirements specified under ASME A17.1 section 2.14.1.6.
2. A car enclosure shall be permitted to have a top that is non-load bearing provided the top of the car enclosure is not needed to be accessed to service, maintain or inspect any part of the elevator equipment and contains a sign meeting ANSI Z535.4 indicating the car top is not load-bearing.

DELETE per council or CHANGE based on council's view of new information in blue below [Renumbered to (c)]:

(c) This is a department rule in addition to the requirements of A17.1, 5.3.1.7.2: Where the car door or gate is of the accordion type, maximum 5" clearance is permitted between the hoistway side of the hoistway door and the mid point of the nearest and farthest point of the landing side of the accordion car gate.

Add a Code or a Note stating the measurement is taken where the distance between hoistway door and car door or gate is the greatest.

OR Council might consider this alternative code:

Replace the 3 & 5 inch rule with ¾" & [3.5 or 4 inches] rule as measured from the face of the hoistway door and to the external surface of the car gate (consistent with the 3.6" minimum

diameter of for the 5<sup>th</sup> Percentile of 0-3 year olds- the most conservative design criteria provided in the University of Michigan study)

- Add a strength/deflection requirement to all gates (currently missing from 5.3.1)
- Continue to permit accordion and scissors style gates that reject a ball of [3.5 or 4] inch diameter, provided the configuration meets the hoistway door to gate clearance requirements
- Permit use of a SIL-rated light curtain(s) that will detect the passing of a 3.5/4 inch sphere as an alternate means of achieving the new required clearances (on car, on landings, or both)

**ADD per council:**

**(d).** The requirements of ASME A17.1, 5.3.1.16.2(i)(2) are not included as part of this chapter.

**[Renumbered to (e)]:**

**(e).** Substitute the following wording for A17.1, 5.3.1.19: The elevator shall be provided with a hard wired telephone or a telephone utilizing wireless, cellular or other technology capable of operating at all points of elevator travel. The telephone must be available in the elevator, charged (if battery powered) and operational any time the elevator is in use. If the telephone is not a hard-wired land line type, the elevator must include a sign informing riders that a telephone is required to be present while operating the elevator.

**Comment:** This addresses the old code language and technology that has been in the A17.1 since the 1980's. This allows owners to choose to not have a land-line to their homes, as is a growing trend. "In 2011, the proportion of wireless-only households reached 34%. At the same time, homes with a landline phone decreased to 63.6%."

**ADD from current code, unless keeping these out of the definition of a Conveyance means we don't need (3), (4), (6) and (7) here:**

**SPS 318.1705(3) MARINE ELEVATORS.** The requirements in ASME A17.1 section 5.8 are not included as part of this chapter.

**SPS 318.1705(4) MINE ELEVATORS.** The requirements in ASME A17.1 section 5.9 are not included as part of this chapter.

**SPS 318.1705(5) ELEVATORS USED FOR CONSTRUCTION.** This is a department rule in addition to the requirements in ASME A17.1 section 5.10.1.21.2: All elevators shall have an assigned operator while in use.

**ADD to not regulate these if necessary:**

**SPS 318.1705(6) WIND TURBINE TOWER ELEVATORS.** The requirements in ASME A17.1 section 5.11 are not included as part of this chapter.

**SPS 318.1705(7) OUTSIDE EVACUATION ELEVATORS.** The requirements in ASME A17.1 section 5.12 are not included as part of this chapter.

**ADD from current code:**

**SPS 318.1707 Dumbwaiter and Type B material lifts.**

**(1) POWER AND HAND DUMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES.**

Substitute the following wording for the requirements in ASME A17.1 Part 7, Scope: This part applies to power dumbwaiters and Type B material lifts.

**(2) HOISTWAY-ACCESS DOORS.** This is a department rule in addition to the requirements in ASME A17.1 section 7.1.11.5: 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.

- (3) HOISTWAY-DOOR VISION PANELS. Substitute the following wording for the requirements in ASME A17.1 section 7.1.11.8: Vision panels shall be provided in hoistway doors where position indicators are not provided. Vision panels shall comply with ASME A17.1 sections 2.11.7.1.2, 2.11.7.1.3, 2.11.7.1.4 and 2.11.7.1.6, and the total area of one or more vision panels in any hoistway door shall not be less than 4 sq. in. and not more than 25 sq. in. **CHECK these code references**

ADD from current code:

**SPS 318.1708**

- (1) SECURITY This is a department rule in addition to the requirements in ASME A17.1 section 8.1: Key access as specified in this section will not be verified by the department or agent municipality.

QUESTION: Do we want to state dept policy for non-elevator personnel allowed to access an elevator pit with the proper training? See current web article on this.

ADD from current code with removal of part lined out in red.

(2) MAINTENANCE, REPAIR, REPLACEMENT AND TESTING.

- (a) *Application of ASME A17.1 section 8.6.* Substitute the following wording for the requirements in ASME A17.1 section 8.6 (intro. par.): ASME A17.1 sections 8.6.1 to 8.6.11. ~~and ASME A17.1 sections 8.6.12.1, 8.6.12.3.1.3 and 8.6.12.4.1.2 apply to maintenance, repairs and replacements.~~

ADD from current code with clarifications

- (b) *Documentation.* These are department rules in addition to the requirements of A17.1, 8.6.1.1.3:
1. New or updated maintenance control program, maintenance records and wiring diagrams in electronic form shall be transferred to the paper copy(s) of the document by the installing or service contractor within 3 months of the maintenance, repair, replacement or alteration.

**REMOVE** "of the" here:

- ~~(4) Electronic format records shall be transferred to the paper copy of the within 3 months.~~

ADD to codify not removing records from site

2. Maintenance control program, maintenance records and wiring diagrams are the property of the conveyance owner, not a conveyance installer or service company. They may be removed only with the permission of the owner.

**Note:** Maintenance records are the property of the owner and shall not be removed from the site.

**Comment:** This still requires maint. records in the machine room where there is a m.r. so they'll be most convenient. It addresses new technology also, not addressed in A17.1. This allows the records in the machine room to not become too big and cumbersome. This assures the owner will have another copy if the machine room copy disappears.

CHANGE to not require a periodic maintenance schedule:

3. Substitute the following wording for A17.1, 8.6.1.2.1(a): For new installations, The initial maintenance control program shall be provided from the equipment manufacturer. For existing equipment undergoing any alteration, repair or replacement, the maintenance control program for the altered, repaired or replaced components shall be provided by the person(s) or firm providing the equipment.

~~SPS 318.1708(3) Substitute the following wording for A17.1, 8.6.1.4.1: Rewrite to not require a maintenance schedule.~~

~~Comment: Should not require maintenance on a strict schedule determined by the manufacturer or service provider.~~

~~CLARIFY locations for records depending on whether there is an inspection and test panel or the elevator is serving a single dwelling:~~

- ~~4. Substitute the following wording for A17.1, 8.6.1.2.1(d): A copy of the maintenance control program shall be located as follows:
  - ~~a. for a conveyance serving a commercial building and having a machine room, control room or control space accessed directly from a building floor level or the roof, in that machine room or control room or space.~~
  - ~~b. for a conveyance serving a commercial building and having an inspection and test panel, the inside cover of the inspection and test panel shall provide instructions for locating the maintenance control program. Instructions shall be permanently legible with lettering not less than 1/8" in height.~~
  - ~~c. for a conveyance serving a single dwelling, the front of the controller shall provide instructions for the maintenance control program. Instructions shall be permanently legible with lettering not less than 1/8" in height.~~~~

~~CLARIFY locations for records:~~

- ~~5. Substitute the following for the introductory paragraph of A17.1, 8.6.1.2.2: The documents specified in 8.6.1.2.2(a), (b) and (c) shall be located as follows:
  - ~~a. for a conveyance serving a commercial building and having a machine room, control room or control space accessed directly from a building floor level or the roof, in that machine room or control room or space.~~
  - ~~b. for a conveyance serving a commercial building and having an inspection and test panel, the inside cover of the inspection and test panel shall provide instructions for locating the on-site documentation. Instructions shall be permanently legible with lettering not less than 1/8" in height.~~
  - ~~c. for a conveyance serving a single dwelling, the front of the controller shall provide instructions for locating the on-site documentation. Instructions shall be permanently legible with lettering not less than 1/8" in height.~~~~

~~SPS 318.1708(2) Substitute the following wording for A17.1, 8.6.1.4: Maintenance record shall document compliance with 8.6.~~

- ~~(a) One copy on site retained by the owner or owner's representative documenting maintenance, repairs, replacements, alterations, testing and any petitions for variance for the life of the conveyance beginning not later than January 1, 2009.~~
- ~~(b) For elevators with a machine room, control room or control space one copy in the machine room, control room or control space documenting maintenance, repairs, replacements, alterations, testing and petitions for variance for the past 5 years.~~
- ~~(c) For elevators with only an inspection and test panel and no machine room, control room or control space, the on-site copy of the maintenance record must be available to elevator personnel upon request. Directions for locating the maintenance record must be included on a label inside the cover of the inspection and test panel.~~

**CLARIFY record retention and locations for records:**

6. Substitute the following for the introductory paragraph of A17.1, 8.6.1.4:

Maintenance records shall document compliance with 8.6. The maintenance records shall be retained for the most recent 5 years minimum, or from the date of installation or adoption of this code edition. Existing maintenance records up to 5 years minimum shall be retained.

Maintenance records shall be located as follows:

- a. for a conveyance serving a commercial building and having a machine room, control room or control space accessed directly from a building floor level or the roof, in that machine room or control room or space.
- b. for a conveyance serving a commercial building and having an inspection and test panel, the inside cover of the inspection and test panel shall provide instructions for locating the on-site documentation. Instructions shall be permanently legible with lettering not less than 1/8" in height.
- c. for a conveyance serving a single dwelling, the front of the controller shall provide instructions for locating the on-site documentation. Instructions shall be permanently legible with lettering not less than 1/8" in height.

~~**SPS 318.1708(4)** Substitute the following wording for A17.1, 8.6.1.4.1(2): The owner or owner's representative shall retain the maintenance records as specified in A17.1 section 8.6.1.4.1. A copy of the maintenance record shall be kept in the machine room. Electronic format records of maintenance performed shall be transferred to the paper copy of the within 3 months of the maintenance. Maintenance records are the property of the owner and shall not be removed from the machine room.~~

~~Comment: The 2013 8.6.1.2.1 requires the elevator company to write a maintenance control program to specify their own periodic service. Code and policy have been to NOT require periodic service contracts. This could greatly increase costs to building owners unnecessarily, especially for elevators, escalators, moving walks, dumbwaiters and material lifts that get little use.~~

**ADD to address changes in 2013 A17.1:**

7. This is a department rule in addition to the requirements of A17.1, 8.6.1.4.2:  
The record of trouble calls shall be included in the maintenance record.

**CLARIFY location for oil record:**

8. This is a department rule in addition to the requirements of A17.1, 8.6.5.7.  
a. The record of oil usage shall be kept quarterly.  
b. The record of oil usage shall be included in the maintenance record.

**CLARIFY per council:**

(c) Substitute the following wording for the requirements in A17.1 section 8.6.1.6.5: In commercial buildings, a class "ABC" fire extinguisher shall be provided inside of, or within view and within 25 feet of, a dedicated elevator machine room, control room, machinery space, control space, inspection and test panel as applicable, or a walk-in machine or control room for an escalator or moving walk.

**CLARIFY dept requirements for most tests to be by license holders:**

(d) Substitute the following for A17.1, 8.6.1.7.2. A record of the required periodic tests shall be included in the maintenance record.

1. The test record shall include the test(s), applicable code requirement(s), dates(s) performed, the test results and the name of the person performing the tests.
2. The test record shall also include the license number of the person performing the tests and the name of the company employing the license holder for tests listed in 8.6.4.19, 8.6.4.20, 8.6.5.14, 8.6.5.15, 8.6.6.1.1, 8.6.6.2.1, 8.6.6.3.1, 8.6.7.1.1, 8.6.7.2.1, 8.6.7.5.1, 8.6.7.6.1, 8.6.7.7.1, 8.6.7.10, 8.6.8.15, 8.6.10.1.1 and 8.6.10.2.1.
3. If an alternative test method in 8.6.4.20 is utilized, the test report and test tag must indicate alternative testing was utilized for the applicable requirement.

**REMOVE per council:**

~~**SPS 318.1708(6) – New Section 8.6.1.7.2**~~

~~Comment: This seems to give the option of metal test tags or written test records. Both are to be attached to the controller – See Rationale under Periodic Test Record. If we already require the Maintenance record to include test reports, there's no need for the tags or additional records. This does NOT address ITP elevators that don't have a single "controller".~~

**UPDATE code references and clarify:**

- (e) *Maintenance of hydraulic elevators.* Substitute the following wording for the introductory paragraph in A17.1, 8.6.5.8: An elevator installed prior to January 1, 1994 with a hydraulic cylinder having a portion of the cylinder below the pit floor and not visible for inspection shall be tested in accordance with A17.1, 8.6.5.14.1 and 8.6.5.14.2 or shall conform to A17.1, 8.6.5.8(a) or 8.6.5.8(b).

**ADD here from current 318.1708(8), added "or agent municipality", changed "department forms" to "approved forms":**

(f) *Periodic test requirements – Category 1.*

1. *Relief valve verification of setting and system pressure test.* These are department rules in addition to the requirements in ASME A17.1 section 8.6.5.14.1:
  - a. This section applies only to elevators meeting SPS 318.1708(2)(e).
  - b. Results of the relief valve setting and system pressure test shall be submitted to the department or agent municipality on approved forms as specified in s. SPS 318.1015 (4) (c) 2. **CHECK code references**
2. *Hydraulic cylinders and pressure piping.* These are department rules in addition to the requirements in ASME A17.1 section 8.6.5.14.2.:
  - a. This section applies only to elevators meeting SPS 318.1708(2)(e).
  - b. Results of the hydraulic cylinder and pressure piping tests shall be submitted to the department or agent municipality on approved forms as specified in s. SPS 318.1015 (4) (c) 2. **CHECK code references**

**CHANGE to quarterly per council, clarify location for record:**

(g) *Special Provisions.*

1. Substitute the following for the requirements of A17.1, 8.6.11.1: Elevators provided with firefighters emergency operation shall be subjected quarterly by authorized personnel to Phase I recall by use of the key switch, and a minimum of one floor operation on Phase II where equipped. Deficiencies shall be corrected. A record of the findings shall be included in the maintenance record.

2. This is a department rule in addition to the requirements of A17.1, 8.6.11.4 through 8.6.11.9: Written procedures as specified in these sections will not be evaluated by the department.

**ADD for 2013 A17.1 and clarify location of test records:**

**(h) Alternative test methods.** This is a department rule in addition to the requirements of 8.6.11.10.4: Where a completed test report for a Category 1 or Category 5 test is required to be sent to the department or agent municipality, the alternative test method report is also required to be sent to the department or agent municipality.

**ADD for 2013 A17.1 and clarify location of test records:**

**(i) Examinations after events.** This is a department rule in addition to the requirements of 8.6.11.11 through 8.6.11.14: A record of the findings shall be included in the maintenance record.

**(3) ALTERATIONS**

**ADD here from current code:**

**(a).** This is a department rule in addition to the requirements of A17.1, 8.7.2.8. Where sprinklers are added to an existing elevator machine room, machinery space, control room, control space, top of hoistway or pit less than 48" deep, the installation shall comply with A17.1, 8.7.2.28(c) and (e), except where the elevator(s) already were equipped with Phase I and Phase II firefighters emergency operation and the existing car operating panel will remain, the elevator(s) is not required to have the firefighters emergency operation functions on the car operating panel behind a locked cover, unless required by another part of section 8.7.

**NOTE:** I'm not sure if (b), (c), (e), and (f) should be here as several changes to A17.1, 8.7 or should be in 318.1702 as a change to A17.1, 2.27.8 the way I wrote SPS 318.1702(7):

**(b).** This is a department rule in addition to A17.1, 8.7.2.28(c): All elevators in the building equipped with firefighters emergency operation shall conform to 2.27.8 for switch keys.

**(c).** This is a department rule in addition to A17.1, 8.7.2.28(d): All elevators in the building equipped with firefighters emergency operation shall conform to 2.27.8 for switch keys.

**(d).** This is a department rule in addition to the requirements of A17.1, 8.7.3.8. Where sprinklers are added to an existing elevator machine room, machinery space, control room, control space, top of hoistway or pit less than 48" deep, the installation shall comply with A17.1, 8.7.2.28(c) and (e), except where the elevator(s) already were equipped with Phase I and Phase II firefighters emergency operation and the existing car operating panel will remain, the elevator(s) is not required to have the firefighters emergency operation functions on the car operating panel behind a locked cover, unless required by another part of section 8.7.

**(e).** This is a department rule in addition to A17.1, 8.7.3.31.8(c): All elevators in the building equipped with firefighters emergency operation shall conform to 2.27.8 for switch keys.

- (f). This is a department rule in addition to A17.1, 8.7.3.31.8(d): All elevators in the building equipped with firefighters emergency operation shall conform to 2.27.8 for switch keys.

QUESTION for council: Is 8.7.2.24.7(c) really a "replacement"? See 8.7.1.7.

NOTE: I left the current 318.1708(3)(a) 2. out here – would like to know if the council recommends continuing to require installation of firefighters emergency operation for an increase in rise if no other parts of the alteration project would require installation of firefighters emergency operation.

NOTE: 8.7.5.3 is new since 2007. Council comments please.

ADD from current code:

- (4) CODE DATA PLATE.** Substitute the following wording for the requirements in ASME A17.1 section 8.9 introductory paragraph: ASME A17.1 section 8.9 contains requirements for all new equipment within the scope of this chapter.

ADD from current code:

- (5) ACCEPTANCE INSPECTIONS AND TESTS, GENERAL REQUIREMENTS.** Substitute the following wording for the requirements in ASME A17.1 sections 8.10.1.1.1 and 8.10.1.1.3:
- (a) *Persons authorized to make acceptance inspections and tests.* Licensed elevator inspectors performing acceptance inspections for new or altered installations shall comply with s. SPS 318.1015 (1), (2) (b) and (c) and (4) (a).
  - (b) *Persons installing or altering equipment.* This is a department rule in addition to the requirements in ASME A18.1 section 8.10.1.1.2: The installation shall not be placed in service until authorized by the department or agent municipality.

ADD for clarification, council comments please:

- (c) *Acceptance test reports.* The results of acceptance tests including those required to be witnessed the inspector must be recorded on forms of the department or agent municipality. Where witnessed, forms are not required to be submitted to the department or agent municipality.

ADD from current code, separating "inspections" by inspectors from "tests" by contractors, mechanics and other licensed or registered elevator personnel:

**(6) PERIODIC INSPECTIONS AND WITNESSING OF TESTS.**

- (a) *Persons authorized to perform periodic inspections.* Substitute the following wording for the requirements in ASME A17.1 sections 8.11.1.1 and 8.11.1.1.1: Licensed elevator inspectors performing periodic inspections and test shall comply with s. SPS 318.xxxx.
- (b) *Persons authorized to perform periodic tests.* Substitute the following wording for the requirements in ASME A17.1 sections 8.11.1.1.2(a): Licensed or registered elevator personnel performing periodic inspections and tests in Section 8.11 shall comply with s. SPS 318.xxxx. Inspectors from the department or agent municipality may choose to witness tests.

REPLACE A17.1, 8.11.1.1.2(b) for inspector witnessing with:

- (c) *Periodic test reports.* Substitute the following wording for the requirements in A17.1, 8.11.1.1.2(b): Results of required tests shall be reported on department forms.
- (d) *Periodic inspection and test frequency.* Substitute the following wording for the requirements in ASME A17.1 section 8.11.1.3:

1. Periodic inspections shall be made at intervals not longer than one year.
2. Category 1 periodic tests shall be made at intervals not longer than one year.
3. Category 3 periodic tests shall be made at intervals not longer than 3 years.
4. Category 5 periodic tests shall be made at intervals not longer than 5 years.

**(e) Installation placed out of service.** Substitute the following wording for the requirements in A17.1, 8.11.1.4:

1. A conveyance placed out of service shall require all of the following:
  - a. Removal of power feed lines from the load side terminals of the electrical disconnecting means.
  - b. Sealing of the disconnecting means in the open position.
  - c. For elevators, dumbwaiters and material lifts, securing or locking of hoistway doors and access doors.

**Note:** See ASME A17.1 section 8.1.3 for requirements relating to Group 2 security.

  - d. The car and counterweights, where provided, shall be secured to prevent either from falling due to suspension member or equipment failure.
  - e. For escalators or moving walks, barricading of entrances to prevent access. Barricades shall be constructed in accordance with the building code.
  - f. Inspection of subd. 1. a. to d. shall be performed by the department.
  - g. Approval of the building code authority where a conveyance is part of a required accessible route in an occupied building.
2. A conveyance placed out of service shall not require periodic inspections or tests.
3. A conveyance placed out of service shall require applicable periodic inspections and tests before being returned to service.

**(f) Installation converted to a material lift.** These are department rules in addition to A17.1, 8.11.1.4:

1. An existing elevator converted to a material lift shall require all of the following:
  - a. Removal of in-car controls.
  - b. Conversion of hall calls to call/send controls.
2. A conveyance converted to a material lift shall not require periodic inspections or tests.

**CHANGE from earlier draft for consistency on signage:**

- c. Installations of signs meeting ANSI Z535.4 stating "For Material Only. No Riders Permitted" at the call/send controls and the former location of the car operating panel in letters not less than 1/2" in height and centered on the back wall of the car 72" above the car floor in letters not less than 2" in height.
- d. Inspection of subd. 1. a. to c. shall be performed by the department.
- e. Approval of the building code authority where the elevator is part of a required accessible route in an occupied building.

**Note:** A material lift, although not regulated by this department is still subject to regulations regarding occupational safety. Improper maintenance can result in injury or death for persons loading or unloading materials, maintaining equipment or otherwise occupying the building.

3. A conveyance converted to a material lift shall require a permit and satisfactory completion of all applicable tests and inspections and prior to returning to service as an elevator.

**ADD from current code, SPS 318.1708(7), added "or agent municipality", changed "department forms" to "approved forms":**

**(g) PERIODIC INSPECTION AND TESTS OF ELECTRIC ELEVATORS.**

1. *Periodic test requirements, category 5.* This is a department rule in addition to the requirements in ASME A17.1 section 8.11.2.3: Results of all category 5

tests shall be submitted to the department or agent municipality on approved forms as specified in s. SPS 318.1015 (4) (c) 2. **CHECK code references.**

2. *Car and counterweight safeties.* This is a department rule in addition to the requirements in ASME A17.1 section 8.11.2.3.1: Any damaged section of wood guide rails shall be replaced. **CHECK code references.**

**(h) PERIODIC INSPECTION AND TESTS OF ESCALATORS AND MOVING WALKS.**

1. *Step/skirt performance index.* This is a department rule in addition to the requirements in ASME A17.1 section 8.11.4.2.19: Results of the step/skirt performance index test shall be submitted to the department or agent municipality on approved forms as specified in s. SPS 318.1015 (4) (c) 2. **CHECK code references**
2. *Clearance between step and skirt.* This is a department rule in addition to the requirements in ASME A17.1 section 8.11.4.2.20: Results of the clearance between the step and skirt shall be submitted to the department or agent municipality on approved forms as specified in s. SPS 318.1015 (4) (c) 2. **CHECK code references**

**SPS 318.1709**

**ADD from current code, SPS 318.1708(7) but with the allowance for the building code to adopt a later standard without requiring this to be changed at that time:**

- (1)** Substitute the following wording for the requirements in A17.1, Table 9.1 entry ICC/ANSI A117.1–(latest edition): Accessibility in public buildings and places of employment shall be provided in accordance with the edition of ICC/ ANSI A117.1 incorporated by reference in the building code.

**Should code do this for every standard in the table except NFPA 72 below?**

**ADD to cover all the occurrences of A17.1 referring to NFPA 70 for electrical"**

- (2)** Substitute the following wording for the requirements in A17.1, Table 9.1 entry NFPA 70- (latest edition): Electrical requirements shall be provided in accordance with SPS 316.

**ADD to accept the part of 2010 NFPA 72 needed to meet building code and elevator code requirements regarding occupant evacuation elevators:**

- (3)** Substitute the following wording for the requirements in A17.1, Table 9.1 entry NFPA 72- (latest edition): Requirements for occupant evacuation elevators shall be provided according to the 2010 edition of NFPA 72. All other requirements of NFPA 72 shall be in accordance with the edition adopted by the building code.

**Proposed language for SPS 318 to address  
ASME A18.1 (2011)  
12-5-2013**

The following were used to prepare this draft:

- ASME A18.1, 2005, 2008, 2011 editions
- Current SPS 318.1800 - 1820
- Comm 18, March 2004
- Wis. CSCC comments to a set of recommendations from the 11-28-12 council meeting
- Comments from Jim Quast to the same set of recommendations.
- 2003 ICC/ANSI A117.1 Accessibility Standard.
- Current IBC and Commentary
- Current IEBC

**SPS 318.1800** Vertical and inclined platform lifts and stairway chair lifts installed to serve commercial buildings or sites must meet the requirements of the adopted standard except where modified by this chapter. Vertical and inclined platform lifts and stairway chair lifts installed to previous codes must meet those standards except where addressed in this chapter.

**SPS 318.1801 Scope and Definitions**

(1) Substitute the following for A18.1, 1.1.1: This subchapter covers the design, construction, installation and operation of equipment covered by ASME A18.1 as defined in 318.10xx, intended for the transportation of mobility impaired persons only.

*1.1.1 covers inspection which is elsewhere in SPS 318, testing which the council agreed to not require for lifts except 5-year safety tests unless the inspector deems a test necessary due to excessive wear, damage, dirt, corrosion or similar condition, and maintenance and repair are not addressed by the A18.1 standard. The second half of 1.1.1 describes code requirements covered elsewhere within A18.1 and should not be part of the scope. This 318 code also refers to our decision to provide the scope of 318 in the definitions section.*

(2) Substitute the following wording for A18.1, 1.1.2(g) for equipment not covered by this standard: Elevators or other mechanisms used to raise and lower portions of a stage, audience level or orchestra pit.

Note: Vertical and inclined platform lifts and stairway chairlifts serving stages, audience levels and orchestra pits are covered by this chapter.

*This clarifies the difference between elevators that raise and lower stages and orchestra pits and lifts at stages and orchestra pits.*

(3) Substitute the following wording for A18.1, 1.1.3:

(a) This code applies to

1. new installations.
2. alterations to existing equipment
3. complete replacements of existing platform lifts to the greatest extent that is technically feasible per IEBC.

4. complete replacements of existing stairway chair lifts.

Note: See 318.10xx for permit and inspection requirements for new installations, and alterations and complete replacements to existing equipment.

- (b) For equipment contracted to be installed prior to this edition of the code, repairs component replacement and maintenance are to meet the requirements of the standard in effect at that time.

*This corrects the statement in A18.1 about application only to new equipment and clarifies alterations to older lifts, replacement of lifts, repair and maintenance.*

(4) Substitute the following for the definitions in A18.1, 1.3:

Sam, the draft of Subchapter II already has definitions but doesn't address those in A18.1. Do we need to change these:

(a) Inspections and tests

They are 2 different things that should be separated.

(b) installation, placed out of service does not apply in Wisconsin.

(c) do we should go through all the A18.1 definitions and see if any others need changes.

(5) Need to address items in Table 1.5-1:

(a) ASME A17.1 means SPS 318 [? – this is for SPS 318.1808(5) and (6)]

(a) ASME A17.5 means SPS 316

(b) IBC means SPS 361 – 366

(c) NFPA 70 means SPS 316.

#### **SPS 318.1802 Vertical Platform Lifts**

##### **(1) RUNWAY ENCLOSURE PROVIDED.**

- (a) This is a department rule in addition to the requirements of A18.1, 2.1.1.2 and 2.1.1.3:

The clearance between the platform and the glazing in fire-rated runway doors shall be not more than 1-1/4". The shear condition at the top of glazing in such doors shall be beveled at not less than 45 degrees.

*Similar allowance was in the March '04 code but was removed for unknown reasons. The problem might still exist on new installations so should be addressed here.*

~~(2) RUNWAY ENCLOSURE PROVIDED. This is a department rule in addition to the requirements of A18.1, 2.1.1.7: Where the platform enclosure extends less than 79" above the platform, running clearance shall not be more than 4" between the platform enclosure and the runway enclosure walls or the vertical face of the machine tower. Exception: This maximum clearance does not apply to the spaces next to the machine tower, above the machine tower or to any point more than 42" above the top landing.~~

~~OR BETTER LANGUAGE ADDED 8-22-13:~~

- (b) This is a department rule in addition to the requirements of A18.1, 2.1.1.7: Where the platform enclosure extends less than 79" above the platform, horizontal clearance between the platform enclosure on a side not containing an entrance and the adjacent runway enclosure walls or the vertical surface of the machine tower shall not exceed 4". The horizontal clearance between the platform enclosure wall and

the runway enclosure to the sides of the machine tower shall not exceed 12". These maximum clearances do not apply to spaces above the machine tower or to any point more than 42" above the top landing.

*A18.1 allows for unlimited clearance away from the side of a platform enclosure. A lift isn't a stationary railing or balcony. Spaces larger than 4" will invite people to climb under the lift to hide and possibly be injured, ride the outside of the lift or throw garbage and material in the space.*

**(3) PARTIAL RUNWAY ENCLOSURE PROVIDED.**

- (a) This is a department rule in addition to the requirements of A18.1, 2.1.2.1: Where the platform enclosure extends less than 79" above the platform, horizontal clearance between the platform enclosure on a side not containing an entrance and the adjacent runway enclosure walls or the vertical surface of the machine tower shall not exceed 4". The horizontal clearance between the platform enclosure wall and the runway enclosure to the sides of the machine tower shall not exceed 12". These maximum clearances do not apply to spaces above the machine tower or to any point more than 42" above the top landing
- (b) This is a department rule in addition to the requirements of A18.1, 2.1.2.1.1, 2.1.2.2 and 2.1.2.3. The clearance between the platform and the glazing in fire-rated runway doors shall be not more than 1-1/4". The shear condition at the top of glazing in such doors shall be beveled at not less than 45 degrees.

*A18.1 allows for unlimited clearance away from the side of a platform enclosure. A lift isn't a stationary railing or balcony. Spaces larger than 4" will invite people to climb under the lift to hide and possibly be injured, ride the outside of the lift or throw garbage and material in the space.*

**(4) RUNWAY ENCLOSURE NOT PROVIDED.**

- (a) This is a department rule (or maybe a note) in addition to the requirements of A18.1, 2.1.3: Lifts without runway enclosures must meet building code, specifically for unguarded space below the lift platform of more than 27" above the floor.

*This allows lifts without runway enclosures but only if they do not have open space below them that would be a hazard for a blind person using a cane.*

- (b) This is a department rule in addition to the requirements of A18.1, 2.1.3.5: Where the platform enclosure extends less than 79" above the platform, horizontal clearance between the platform enclosure on a side not containing an entrance and the adjacent runway enclosure walls or the vertical surface of the machine tower shall not exceed 4". The horizontal clearance between the platform enclosure wall and the runway enclosure to the sides of the machine tower shall not exceed 12". These maximum clearances do not apply to spaces above the machine tower or to any point more than 42" above the top landing.

**(5) RAMPS.**

- (a) Substitute the following wording for A18.1, 2.1.6.1: Ramps, where provided shall be in accordance with the building code.

Note: A surface steeper than 1:48 within the wheelchair maneuvering clearances required by the building code at a lift entrance will require the entrance to be power opening with clearances to the lift call/door opener button also meeting the building code.

- (b) Substitute the following wording for A18.1, 2.1.6.2, last sentence and (a) through (e):  
When in use, the inclination of retractable ramps shall be in accordance with the building code.

*Refers to A117.1 for ramps instead of A18.1.*

**(6) PLATFORM AREA.** Substitute the following wording for the requirements in ASME A18.1 section 2.6.5:

- (a) *Size of platform.* Except as specified in par. (b), the net platform area of a lift shall have a minimum clear width of 36 inches and a minimum clear length of 54 inches. The net inside platform area shall not exceed 18 square feet. Platform lift controls may not project more than 4 inches from the platform side wall measured between a minimum of 30 inches to a maximum of 48 inches above the platform floor. The minimum platform width between allowed projections shall not be less than 32 inches.
- (b) *Side entrance platforms.* The net platform area for platform lifts with side doors shall have not more than 18 square feet with a minimum clear width of 39 inches and minimum clear length of 60 inches.

According to my notes council has not decided to move away from the current 54" length for most lifts due to the large size of some people, wheelchairs and scooters and the need for some individuals to be reclined. I was asked to research this and was told the extra cost of a 54" platform is negligible for the manufacturers that responded. They said they are neutral on whether the code should change but already produce 54" platforms for other jurisdictions.

If staying with 54", keep the language in the current SPS 318.1801(6)(a) and maybe add the 48" length is allowed where a larger lift is technically infeasible in or at existing buildings by IEBC 605.

If not staying with 54" platform, Copy sizes from **2009** A117.1 until that standard is adopted. *Per Jim Quast.*

**(7) ILLUMINATION.** Substitute the following wording for A18.1, 2.6.6.3: An auxiliary illumination source to provide general illumination of not less than 0.2 fc on the floor and controls shall be provided. The auxiliary system shall:

- (a) activate when normal illumination fails
- (b) use not less than two lamps of approximately equal wattage.
- (c) for lifts that are designed and installed to operate **for at least 2 cycles** up and down after normal power fails, maintain at least 0.2 fc for not less than 90 minutes.
- (d) for lifts that are not designed or installed to operate **for at least 2 cycles** up and down after normal power fails, maintain at least 0.2 fc for not less than 4 hours.

*This allows the use of a less expensive emergency fixture with a shorter operating time where users of the lift can still operate the lift during a power failure. "Designed" accounts for lifts with battery operation. "Installed" accounts for lifts that don't have batteries but are connected to a building stand-by power source.*

(8)? LIMITATION ON LOAD SPEED AND TRAVEL

I don't recall whether the council agreed to adopt 2.7.1 as written or recommended continuing with the 750 lb minimum rated load. If staying with the 750 lb minimum, must change the first sentence of 2.7.1 from 450 lb to 750 lb.

(8) OPERATING DEVICES. Substitute the following wording for A18.1, 2.10.1: Operation of the lift from the landings and platform shall be controlled by continuous pressure type switches. The operating devices shall be designed so both the up and down circuits cannot be operated at the same time.

Note: See the building code for accessible controls, operation and signage.

*This clarifies language and eliminates the 15" to 48" height which could change in a future edition of the A117.1 and become in conflict. The rest of A117.1 is referred to for other details for accessibility with the understanding that tactile and Braille signage are required. If landings are to be designated like they are for elevators, a label on one side of the entrance door frames must be added.*

*Is the symbol for accessibility required on a VPL?*

~~(9) ATTENDANT OPERATION. The requirements in A18.1, 2.10.2 are not included as part of this chapter.~~

*A117.1 does not allow attendant operation of platform lifts.* Jim Q. says this isn't needed here, which is true because it's covered in ICC/ANSI A117.1.

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(9) MANUAL OPERATION. Substitute the following wording for A18.1, 2.10.10: A vertical platform lift not connected to building standby or emergency power and not equipped with rechargeable battery power capable of cycling the lift under full load for two cycles minimum after building power is removed, shall be provided with a means to manually raise or lower the platform. The means shall be operable only by authorized personnel from a landing without working directly over the platform.

*The authors of the code make two confusing statements. First in 2.10.10 they have "(emergency)" after "standby" as if they are the same but standby and emergency power are not the same. Then in 2.12 they seem to allow battery power to also be considered a type of standby power, which it is not.*

Added "indoors" here

(10) EMERGENCY SIGNALS. Substitute the following wording for the introductory paragraph in A18.1, 2.11: If the platform 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 para. 2.11.1 and the following:

- (a) A two-way communication means between the car and a location staffed by authorized personnel shall be provided.
- (b) When the receiving location for the two-way communications is not staffed 24 hours per day by authorized personnel who can take appropriate action, the means of two-way communication shall automatically be directed within 30 s to an additional on- or off-site location, staffed by authorized personnel, where an appropriate action will be taken.
- (c) The two-way communication means within the car shall comply with the following:

1. ICC/ANSI A117.1.
2. A push button to actuate the two-way communication means shall be provided in or adjacent to a car operating panel. The push button shall be visible and permanently identified as "HELP" or "PHONE". The identification shall be on or adjacent to the push button.
3. When the push button is actuated, the emergency two-way communication means shall initiate a call for help and establish two-way communication.
4. A visual indication on the same panel as the push button shall be provided, that is activated by authorized personnel, to acknowledge that two-way communication link has been established. The visual indication shall be extinguished when the two-way communication link is terminated.
5. Information shall be provided to authorized personnel identifying the building location and lift number and that assistance is required.

- (d) The two-way communication means shall be connected to a power source capable of providing for the operation of the audible signaling device and illumination of the alarm switch for at least 1 h. and the means of two-way communication for at least 4 h.

*This makes vertical platform lift two-way communication more like the 2007 A17.1. This does not include the additional cost for a means to verify the operability of the phone line required in the 2010 A17.1. In an earlier meeting, council agreed to wait for a member with a disability to join the council to decide whether lifts need phones like elevators do. Chairman of the A18.1 anticipates adding such a requirement to A18.1. This has been in Comm 18 for a long time. Council doesn't have a member with a disability but unofficial discussions with people who know people with physical disabilities have shown this to be worth keeping.*

**(11) STANDBY POWER.**

**Option 1:** Substitute the following wording for the introductory paragraph in A18.1, 2.12, first sentence: Vertical platform lifts shall comply with 2.12.1, 2.12.1.1 or SPS 318.1802(10). *The A18.1, 2.12 basically states that a lift that has standby power must have standby power, or it could have battery power (?). Option 1 clears up the wording to keep what is currently allowed. If Option 1 is accepted, SPS 318.1802(6)(d) would be needed.*

**Option 2:** Substitute the following wording for the introductory paragraph in A18.1, 2.12: Vertical platform lifts shall comply with 2.12.1 or 2.12.1.1.

*This would require all lifts to operate during power failure instead, Option 2 requires a lift to have either standby power or battery. If Option 2 is accepted, SPS 318.1802(7)(d) wouldn't be needed.*

**SPS 318.1803 Inclined Platform Lifts**

**(1) RUNWAYS.** Substitute the following wording for A18.1, 3.1.1: Inclined platform lifts shall be installed so the necessary means of egress is maintained as required in the building code. Egress width shall be measured with the lift in the unfolded, usable position.

Or put this in the Building code as I suggested in this doc.: 2013-11-6 Elevator related changes to SPS 362 and 366.doc

*The 2009 IBC Commentary states: "The code does not have any specific provisions for where inclined platform lifts are utilized along stairways in locations other than within dwelling units."*

*and "The industry is currently working on different options to address the concern that the lift may be in operation during an event that requires evacuation." This has to remain in SPS 318 until the building code addresses inclined platform lifts installed in stairways of occupancies other than just R-3 in IBC 1009.1, Exception 4, and until the building code recognizes the hazard of measuring with the lift in an R-3 occupancy in the folded position.*

**(2) LOWER LEVEL ACCESS RAMPS AND PITS.**

(a) Substitute the following wording for A18.1, 3.1.4.1: Ramping inclinations for floor mounted ramps shall be in accordance with the building code

Note: A surface steeper than 1:48 within the wheelchair maneuvering clearances required by the building code at a lift entrance will require the entrance to be power opening with clearances to the lift call/door opener button also meeting the building code.

(b) Substitute the following wording for A18.1, 3.1.4.2, last sentence and (a) through (e):  
When in use, the inclination of retractable ramps shall be in accordance with the building code.

*Refers to A117.1 for ramps instead of A18.1.*

**(3). PLATFORM SIZE.** This is a department rule in addition to A18.1, 3.6.4: Copy sizes from 2009 A117.1.

*Per Jim Quast, 2009 A117.1 addresses sizes.*

**(4) OPERATING DEVICES.** Substitute the following wording for A18.1, 3.10.1: Operation of the lift from the landings and platform shall be controlled by continuous pressure type switches. The operating devices shall be designed so both the up and down circuits cannot be operated at the same time.

Note: See the building code for accessible controls, operation and signage.

*Clarifies language and eliminates the 15" to 48" height which could change in a future edition of the A117.1 and become in conflict. The rest of A117.1 is referred to for other details for accessibility. If someone with visual impairments would be expected to use an IPL, tactile and Braille are required. Do landings need to be labeled somehow? Is the symbol for accessibility requires on an IPL?*

~~**(5) ATTENDANT OPERATION.** The requirements in A18.1, 3.10.2 are not included as part of this chapter.~~

*A117.1 does not allow attendant operation of platform lifts. Jim Q. says this isn't needed here, which is true because it's covered in ICC/ANSI A117.1.*

**(5) STANDBY POWER.**

**Option 1:** Substitute the following wording for the introductory paragraph in A18.1, 3.12, first sentence: Inclined platform lifts shall comply with 3.12.1, 3.12.1.1 or 3.10.10.

*The A18.1, 3.12 basically states that a lift that has standby power must have standby power, or it could have battery power(?). Option 1 clears up the wording to keep what is currently allowed.*

**Option 2:** Substitute the following wording for the introductory paragraph in A18.1, 3.12: Inclined platform lifts shall comply with 3.12.1 or 3.12.1.1.

*If all inclined platform lifts have to operate during power failure instead, Option 2 requires a lift to have either standby power or battery.*

**SPS 318.1804 Inclined Stairway Chair Lifts (1) RUNWAYS.** Substitute the following wording for A18.1, 4.1.1: Stairway chairlifts shall be installed so the required means of egress is maintained as required in the building code. Egress width shall be measured with the lift in the unfolded, usable position.

Or put this in the Building code as I suggested in this doc.: 2013-11-6 Elevator related changes to SPS 362 and 366.doc

*The 2009 IBC Commentary states: "The code does not have any specific provisions for where inclined platform lifts are utilized along stairways in locations other than within dwelling units." and "The industry is currently working on different options to address the concern that the lift may be in operation during an event that requires evacuation." This has to remain in SPS 318 until the building code addresses stairway chairlifts installed in stairways of occupancies other than just R-3 in IBC 1009.1, Exception 4, and until the building code recognizes the hazard of measuring with the lift in an R-3 occupancy in the folded position.*

Note: Stairway chairlifts complying with this section may be installed as a convenience for individuals but are not recognized by the building code as providing accessibility due to the inability of a wheelchair user to use them without assistance.

**SPS 318.1808 Hydraulic driving means.** These are department rules in addition to the requirements in ASME A18.1 section 8.1:

- (1) SHUT OFF VALVE. A manually operated shutoff valve shall be provided between the hydraulic machines and the hydraulic cylinder and shall be located outside the hoistway and adjacent to the hydraulic machine on all hydraulic platform lifts with separate machine rooms.
- (2) PUMP RELIEF VALVE.
- (a) *General.* Except as specified in par. (b), each pump or group of pumps shall be equipped with one or more relief valves conforming to all of the following requirements:
1. The relief valve shall be located between the pump and the check valve and shall be of such a type and so installed in the bypass connection that the valve cannot be shut off from the hydraulic system.
  2. The size of the relief valve and bypass shall be sufficient to pass the maximum rated capacity of the pump without raising the pressure more than 50% above the working pressure. Two or more relief valves may be used to obtain the required capacity.
  3. Relief valves shall be sealed after being set to the correct pressure.
- (b) *No relief valve.* A relief valve is not required for centrifugal pumps driven by induction motors, provided the shut-off, or maximum pressure that the pump can develop, is not greater than 135% of the working pressure at the pump.
- (3) CHECK VALVE. A check valve shall be provided and shall be so installed that it will hold the platform lift with rated load at any point when the pump stops and the down valves are closed or the maintained pressure drops below the minimum operating pressure.

(4) **PRESSURE GAUGE FITTINGS.** A pressure gauge fitting with shutoff valve shall be provided on the cylinder side of the check valve or immediately adjacent to the hydraulic control valve.

(5) **TYPE TESTS, CERTIFICATION AND MARKING PLATES FOR CONTROL VALVES.**

(a) *Engineering tests and certification process.* Each type or model and make of hydraulic control valve shall be subjected to the engineering tests and to the certification process as specified in ASME A17.1 section 8.3.5, except ASME A17.1 section 8.3.5.3.1.

(b) *Hydraulic controls.* Hydraulic control valves shall be plainly marked in a permanent manner with all of the following information:

1. Certifying organization's name or identifying symbol.
2. The name, trademark, or file number by which the organization that manufactured the product can be identified.
3. Type designation.
4. Component-rated pressure.
5. Electrical coil data.

*This is copied from current code except the overspeed valve section has been removed because a flow control valve has been added in A18.1, 8.1.4.10. Where codes refer to A17.1, check those references in the 2013 edition for correctness.*

(6) This is a department rule in addition to the requirements in ASME A18.1 section 9.8: Where wedge rope sockets are provided, they shall conform to the requirements of ASME A17.1 section 2.20.9.5.

*Where codes refer to A17.1, check those references in the 2013 edition for correctness.*

**SPS 318.1810 Routine, Periodic and Acceptance Inspections and Tests.**

(1). The requirements in A18.1, 10.1.1 through 10.1.4 are not included as part of this chapter.

Note: Inspections shall be performed as required by SPS 318.10xx.

*SPS 318.10xx refers to the new code language for state, service agent and agent municipality first class city inspectors, qualifications, owner's responsibility to get inspections done, PTOs, etc. in the Administrative section of SPS 318.*

Note: Tests shall be performed as required by SPS 318.10xy.

*SPS 318.10xy refers to the new code language for qualifications of person performing tests in the Administrative section of SPS 318.*

(2) **APPLICABILITY OF INSPECTION AND TEST REQUIREMENTS.** Substitute the following wording for the requirements in A18.1, 10.1.5: Inspections and tests required by SPS 318.1810 (3) through (7) are to determine the equipment conforms to the following applicable requirements:

- (a). the standard in effect at the time of installation.
- (b). for altered components, the standard in effect at the time of the alteration.

*This is part of separating inspections from tests and not having witnessing.*

- (3) ROUTINE INSPECTIONS AND TESTS. Substitute the following wording for the requirements in A18.1, 10.2.1: Routine inspections shall be performed at intervals not longer than 1 yr.

*Removes the word "tests" as part of separating inspections and tests to make the inspection items clear and to not require witnessing of inspections. The council agreed testing won't be required for lifts except 5-year safety tests where applicable, unless the inspector deems a test necessary due to excessive wear, damage, dirt, corrosion or similar condition.*

- (4) INSPECTIONS AND TEST REQUIREMENTS. Substitute the following wording for the requirements in A18.1, 10.2.2: Routine inspections shall include the applicable items listed in A18.1, 10.2.2.1 through 10.2.2.4. Where an inspection reveals a need for a test to be conducted, the inspector may order the test.

*Same as above.*

- (5) PERIODIC INSPECTIONS AND TESTS. Substitute the following wording for the requirements in A18.1, 10.3: Periodic inspections shall be performed at the same time as routine inspections. Where an inspection reveals a need ~~for a test to be conducted,~~ the inspector may order the test.

*Same as above.*

- (6) FIVE-YEAR INSPECTION AND TEST REQUIREMENTS. Where a lift is equipped with a safety device that is subject to testing, 5-year test requirements in A18.1, 10.3.3 shall be performed with the test results submitted to the inspecting authority using form SBD-2E, or equivalent if within an agent municipality.

*Makes clear the 5-year safety test is required, even though other tests aren't.*

- (7) INSPECTION AND TEST REQUIREMENTS FOR ALTERED INSTALLATIONS.

Substitute the following wording for the requirements in A18.1, 10.5: Where an alteration is made to an existing installation, the affected components shall comply with the applicable sections of A18.1, 2 through 4, 8 and 9.

*Removes the word "tests" as part of separating inspections and tests to make the inspection items clear and to not require witnessing of inspections.*

Note: Where plan submittal, approval and inspection are required by SPS Table 318.10xx, inspections and tests are required as specified in SPS 318.18xx.

- (8) INSTALLATION PLACED OUT OF SERVICE. Substitute the following wording for the requirements in A18.1, 10.1.6: When an installation is placed out of service (see para. 1.3, Definitions), the following apply:

- (a). The department or agent municipality ~~or first class city,~~ as applicable, must be notified
- (b). The department, agent municipality ~~or first class city,~~ as applicable may choose to perform an inspection of the placement out of service.
- (c). An inspection fee may be charged.
- (d). Periodic inspections and tests may be discontinued while an installation is out of service.

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(e). Before the installation may be placed back in service, the applicable inspections and tests required by SPS 318.1810 (3) through (7) ~~and SPS 318.10xy~~ shall be performed.

Note: Building code may prohibit placing a vertical or inclined platform lift out of service where used by persons with disabilities. Consult with a building inspector for written permission prior to placing out of service.

*Required to be consistent with placing elevators, escalators, etc. out of service.*

DRAFT

## Change Requests to SPS 362 and SPS 366

These are requested by the Elevator (Conveyance) Safety Program as part of the SPS 318 rewrite

ISSUE	CURRENT CODE(S)	SUGGESTED LOCATION FOR SPS, IBC or IEBC CORRECTION	COMMENTS
<b>ITEMS TO MOVE FROM SPS 318 TO SPS 362 - 366</b>			
Vertical platform lifts - platform size	SPS 318.1801(6)(a)	Move to SPS 362.1109(2) and SPS 366.0605(2)	<p>Vertical platform lift size affects architectural planning and should be the building code.</p> <p>See sections SPS 362.1109(2) and SPS 366.0605(2) in Jim's drafts dated July 3 and August 1, 2013.</p> <p>We have asked several experts in the VPL industry for their thoughts on whether we should follow the national ICC/ANSI A117.1 and go down to a 48" platform length for lifts without side entrances. So far, two have recommended we stay with 54" because it has become the std. size for vertical platform lifts, provides better service and the cost difference is negligible. One has replied to say it is not a standard but recommended staying with it because no cost difference.</p>
Platform lifts - accessible features	SPS 318.1801(8)	SPS 362.1109(3) and SPS 366.0605(3)	<p>The ICC/ANSI A117.1 has left some accessibility requirements out of the part of the std. for lifts. For many years SPS 318 has required vertical platform lift landing call buttons to be within the height range used for elevator call buttons, runway entrances to be labeled like elevator hoistway door frames are for the visually impaired and lift control switches and alarm or communication devices on the platform to be accessible as they are for elevators.</p> <p>By moving this into SPS 362.1109, it also would apply to <i>inclined</i> platform lifts which have not been addressed in this way, but are used the same way as vertical lifts so should provide the same accessible features.</p>

Stairway width – minimum required for installation of inclined platform lifts and stairway chair lifts	SPS 318.1803(1)(a) and SPS 318.1804(2)	Move to SPS 362 and SPS 366 if appropriate	<p>For many years SPS 318 has included the requirement for measuring the stairway width for fire egress with the lift in its unfolded, usable position. This is a building code issue though and should be moved to the building code.</p> <p>IBC Commentary says IBC has only addressed this in 1009.1, Exception 4 for lifts in individual dwellings and allows the lift to be folded. IBC plans to address this in the future for other (most) occupancies maybe including measuring with the lift in the unfolded usable position. Until then, SPS 362 (and maybe 366) has to be clear about measuring stair width with the lift in the unfolded, usable position in occupancies where 1009.1, Exception 4 does not apply.</p> <p>Maybe a good issue to confirm with the SPS 314 council or with Adam Smith, elevator inspector with the Madison Fire Dept and member of the SPS 318 council.</p>
Inclined platform lifts - platform size	SPS 318.1803(2)	Move to SPS 362.1109(2) and SPS 366.0605(2)	<p>Inclined platform lift sizes affect fire egress and architectural planning and should be the building code.</p> <p>It would be best if we could stay with the platform sizes currently in SPS 318.1803(2) but move them into building code along with the vertical lift platform sizes above.</p>
<b>ITEMS TO CORRECT IN SPS 362 - 366</b>			
Star of Life	SPS 362.3002(3)	Add this in current location	<p>Code should state which landings require the star (all landings or just the main landing / designated level). Are the stars only for EMTs arriving at the designated level or are stars needed at landings on every floor for EMTs returning to the elevator(s) with a patient?</p> <p>Code should state whether all stretcher-capable elevators in a building or group of elevators require the stars or just one elevator in a building or group. If several are stretcher-capable should all such elevators have stars in case one is in use by others or out of service? Or if all elevators in the group are stretcher-capable, maybe none should have stars.</p> <p>There are some buildings where it is understood that all elevators are stretcher-capable such as in a hospital. Is it necessary to have stars on elevators in a hospital? EMTs probably won't be taking people from a hospital or will know all elevators are stretcher capable.</p>

			Maybe a good issue to confirm with the SPS 314 council or with Adam Smith, elevator inspector with the Madison Fire Dept and member of the SPS 318 council.
Pit sumps or drains	SPS 362.3004(2)(b) 3	Change in current location	This section for sump or drain sizes should only be required for full-size elevators that must comply with A17.1/B44, 2.2.2.5. Doing this would meet the intent of the elevator code which does not require such a large sump or drain for a LULA elevator per A17.1/B44, Section 5.2.1.2.1.
Access through machine room	SPS 362.3006(1)	Add in current location	Last part of note should state: " <i>...and a prohibition against accessing spaces, machinery or equipment not related to the conveyance through a machine room, control room, machinery space, control space or hoistway.</i> "
Shunt Trip	SPS 362.3006(3)	Remove	This refers to the 2002 NFPA 72 but can be removed because 2007 NFPA 72 has been adopted.

**ITEMS TO ADD TO SPS 362 – 366 TO CORRECT IBC (IEBC?)**

Hoistway vent manual override	IBC 3004.3, Exception	New SPS 362.3004(2), renaming current (2) to (3)?	Exception in code has to be more specific about the manual override control. Can it be a manual lever, a switch or something else? The advice we give is to locate a switch of the type described in IBC 909.16.2, No. 2 at the designated level lobby however also consult with the fire department.  Maybe a good issue to confirm with the SPS 314 council or with Adam Smith, elevator inspector with the Madison Fire Dept and member of the SPS 318 council.
Machine rooms	IBC 3006	Note under SPS 362.3006?	Where IBC Section 3006 refers to "machine rooms" it also has to include machinery spaces, control rooms and control spaces. If we can't make a blanket statement about this, we'll have to change each reference to "machine room" to include the other rooms/spaces.
Independence of machine room ventilation system	IBC 3006.2	Remain in current location	The elevator program and Randy Dahmen have had a lot of questions about the need for an <i>independent</i> ventilation system. We have only been able to explain the need for independence where the elevator is on stand-by power so the machine room ventilation also must be on stand-by power per IBC 3003.1.4. Otherwise, it's difficult to justify cost of installing

			<p>an independent system or even to define what it means to be independent.</p> <p>This should also have a note for temperature and humidity of elevator equipment in accordance with elevator manufacturer's requirements.</p> <p>This should probably also have a note for locations of hydraulic elevator equipment meeting IMC 502.1.3 for containment of oil odors.</p>
Plumbing systems	IBC 3006.6	New SPS 362.3006(3)	<p>This only prohibits <i>plumbing</i> from being in an elevator equipment room, which implies that other non-elevator equipment could be there. This should clarify that <i>all</i> non-elevator equipment is prohibited in a machine room, machinery space, control room, control space or hoistway per SPS 318.</p> <p>Does this intend to prohibit a floor drain from being in a machine room, machinery space, control room or control space?</p>
Vertical platform lift doors or gates	ICC/ANSI A117.1	Draft of SPS 362.1109(1)(a) and SPS 366.0605(1)(a)	See these sections in Jim's drafts dated July 3 and August 1, 2013. I believe this is from a standard or draft later than the ICC/ANSI A117.1 -2003. This clarifies vertical platform lift door width requirements and improves usability in some cases.
		Draft of SPS 362.1109(1)(b)1 and SPS 366.0605(1)(b)1	<p>See these sections in Jim's drafts dated July 3 and August 1, 2013. It is similar to the requirements from the current ICC/ANSI A117.1.</p> <p>This code language also has to end with "<i>...or that do not comply with ICC/ANSI A117.1, 404.2.3.1 and 404.2.5.</i>"</p>
		Draft of SPS 362.1109(1)(b)2 and SPS 366.0605(1)(b)2	<p>See these sections in Jim's drafts dated July 3 and August 1, 2013. It would allow lifts having a side entrance and one end entrance to have manual doors or gates. This would make entering and exiting side-entrance type lifts more difficult.</p> <p>This code language also has to end with "<i>...or that do not comply with ICC/ANSI A117.1, 404.2.3.1 and 404.2.5.</i>"</p>