



*Bruce Rauner, Governor*

*Matt Perez, State Fire Marshal*

## *Office of the State Fire Marshal*

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### **OFFICE OF THE STATE FIRE MARSHAL ELEVATOR SAFETY REVIEW BOARD MEETING**

Thursday, November 15<sup>th</sup>, 2018 - 9:30 a.m.

International Union of  
Elevator Constructors, Local 2  
5860 111th Street  
Chicago Ridge, IL 60415

#### **AGENDA**

1. Call to order
  2. Pledge of Allegiance
  3. Review and vote to approve the minutes from the May 10, 2018 Board Meeting (final action anticipated).
  4. Old Business:  
Elevator progress report – Robert Capuani
  5. New Business:
    - A. Board to consider and, upon appropriate motion, vote to approve adopting latest editions of A17.2 (2017) and A18.1 (2017) (which were published after the Board's June 2017 pre-JCAR vote to approve new ASME Codes)(if approved, these editions will be incorporated into draft motions under consideration in Agenda Item 5(B)).
    - B. Board to consider and, upon appropriate motion, vote on draft rule language consistent with Shanklin motion approved at the May 10th, 2018 Board meeting regarding Illinois Licensed Inspectors witnessing initiating devices for fireman's recall system (A17.1 2016, Sec 8.11.3.1.6)(see attached motion "Appendix 1" (preliminarily approved by Board May 10, 2018) and corresponding draft rule language ("Appendix 2", not yet approved)), along with possible consideration and vote(s), upon appropriate motion(s), of any alternative motion(s) and draft rule language to address this issue. (See attached motion "Appendix 3" (also labeled as "Alternative A") and corresponding draft rule language re: alternating floors and alternating years ("Appendix 4") which is expected to be presented as one such alternative.) (final action anticipated).
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C. Elevator Tactile Identification Act. Board approval to add to inspection form (final action anticipated).

6. Public Comment

7. Adjournment

The Elevator Safety Review Board meeting listed on this agenda will be accessible to persons with disabilities. Persons who need special accommodations should contact the Elevator Safety Board Administrator's office at 312-814-8734 by Tuesday, October 30, 2018, no later than 2:00 p.m.

# Appendix 1

Verbatim Transcript of Handwritten Motion Approved at 5/10/18 Illinois Elevator Safety Review Board Meeting re: Agenda Item 5D.

Where initiating devices are present in an elevator recall system, the system will be tested annually by recalling the elevators to Phase I [and] activating every initiating device in that system to insure that the link between each device and the system are [sic] operable, and programmable devices have the correct address. Testing will be witnessed by a licensed Illinois Elevator Inspector.

# Appendix 2

## Rule Language for Approval by Elevator Safety Review Board (Based on Vote Taken on May 10, 2018)

### Section 1000.60 Adoption of Nationally Recognized Safety Codes

- a) All conveyances shall be designed, constructed, installed, operated, inspected, tested, maintained, altered and repaired in accordance with the following standards and safety codes:
- 1) American Society of Mechanical Engineers (ASME)  
Three Park Avenue  
New York NY 10016-5990
    - A) Safety Code for Elevators and Escalators (ASME A17.1-~~2016~~~~2013~~/CSA B44-~~2016~~~~2013~~) and Performance-Based Safety Code for Elevators and Escalators (ASME A17.7-2007/CSA B44.7-07 reaffirmed 2012);  
  
Modifications to the Safety Code for Elevators and Escalators (ASME A17.1-2013/CSA B44-2013). Where initiating devices are present in an elevator recall system, the system will be tested annually by recalling the elevators to Phase I activating every initiating device in that system to insure that the link between each device and the system are operable, and programmable devices have the correct address. Testing will be witnessed by a licensed Illinois Elevator Inspector.
    - B) Safety Code for Existing Elevators and Escalators (ASME A17.3-2005), but only as required under Section 35(h) and (i) of the Act and subsection (d) of this Section;
    - C) Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A18.1-~~2017~~~~2014~~);
    - D) Standard for the Qualification of Elevator Inspectors (ASME QEI-1-2013).
  - 2) American Society of Civil Engineers (ASCE)  
1801 Alexander Bell Drive  
Reston VA 20191-4400  
  
Automated People Mover Standards (ANSI/ASCE/T&DI 21-13).
- b) All the materials incorporated by reference in this Section are incorporated as of the date specified and include no later editions or amendments.
- c) *The Board shall adopt, or amend and adopt, the latest editions of the standards referenced in this Section within 12 months after the effective date of the standards.* [225 ILCS 312/35(a)]
- d) Upgrade Requirements for Existing Conveyances
- 1) *Notwithstanding anything else in this Part, the following upgrade requirements of the 2007 edition of the Safety Code for Elevators and Escalators (ASME A17.1) and the 2005 edition of the Safety Code for Existing Elevators (ASME A17.3) must be completed by*

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January 1, 2015, but OSFM or the Local Administrator may not require their completion prior to January 1, 2013:

- A) *Restricted opening of hoistway doors or car doors on passenger elevators in accordance with ASME A17.3-2005;*
- B) *Car illumination in accordance with ASME A17.3-2005;*
- C) *Emergency operation and signaling devices in accordance with ASME A17.3-2005;*
- D) *Phase reversal and failure protection in accordance with ASME A17.3-2005;*
- E) *Reopening device for power operated doors or gates in accordance with ASME A17.3-2005;*
- F) *Stop switch pits in accordance with ASME A17.3-2005; and*
- G) *Pit ladder installation in accordance with Section 2.2.4.2 of ASME A17.1-2007.*

- 2) *In the event that a conveyance regulated by this Part is altered, the alteration shall comply with ASME A17.1-~~2016~~2019/CSA B44-~~2016~~19.*
- 3) *Notwithstanding anything else in this Section, the firefighter's emergency operation and the hydraulic elevator cylinder, including the associated safety devices outlined in Section 4.3.3(b) of ASME A17.3-2005, are not required to be upgraded unless:*
  - A) *There is an alteration;*
  - B) *The equipment fails; or*
  - C) *Failing to replace the equipment jeopardizes the public safety and welfare as determined by the Local Administrator or the Board. [225 ILCS 312/35(h) and (i)]*

- e) **Non-Mandatory Guidelines.** It is recommended that all conveyances be inspected and tested in accordance with the following recommended practices. The following list should not be interpreted as excluding other practices recommended by equipment manufacturers.

American Society of Mechanical Engineers (ASME)  
Three Park Avenue  
New York NY 10016-5990

Guide for Inspection of Elevators, Escalators, and Moving Walks (ASME A17.2-~~2017~~2012)

## Witnessing of Smoke Detectors

Fireman's Emergency Operation (-FEO) will be tested annually by recalling the elevators with the initiating devices (-smoke detectors) as follows.

1. An Illinois licensed Elevator Inspector shall witness the activation of each smoke detector(s) (initiating devices) in the elevator hoistway and elevator machine room on an annual basis to ensure proper operation of the elevator fireman's recall system.
2. ~~The~~ Each remaining smoke detector(s) above the elevator entrances (initiating devices) related to the fireman's recall system shall be witnessed by an Illinois Licensed Elevator Inspector. This shall be accomplished by alternating the witnessing of all odd floors one year and then all even floors the following year, with all odd floors corresponding to odd years and all even floors corresponding to even years. For example, all even floors shall be witnessed for the year 2020, and all odd floors shall be witnessed for the year 2021.
3. A conveyance that is in a building that is on a triannual inspection schedule must have the activation of all ~~of~~ the smoke detectors (initiating

devices) witnessed by a Licensed Illinois Elevator Inspector on a triannual bases.

Documentation of these results must be kept on site with the maintenance control program.

# Appendix 4

## Rule Language for Approval by Elevator Safety Review Board (Alternative Language)

### Section 1000.60 Adoption of Nationally Recognized Safety Codes

a) All conveyances shall be designed, constructed, installed, operated, inspected, tested, maintained, altered and repaired in accordance with the following standards and safety codes:

1) American Society of Mechanical Engineers (ASME)  
Three Park Avenue  
New York NY 10016-5990

A) Safety Code for Elevators and Escalators (ASME A17.1-~~2016~~~~2013~~/CSA B44-~~2016~~~~2013~~) and Performance-Based Safety Code for Elevators and Escalators (ASME A17.7-2007/CSA B44.7-07 reaffirmed 2012);

Modifications to the Safety Code for Elevators and Escalators (ASME A17.1-2013/CSA B44-2013). Witnessing of Smoke Detectors. Fireman's Emergency Operation (FEO) will be tested annually by recalling the elevators with the initiating devices (smoke detectors) as follows:

(i) an Illinois licensed Elevator Inspector shall witness the activation of each smoke detector(s) (initiating devices) in the elevator hoistway and elevator machine room on an annual basis to ensure proper operation of the elevator fireman's recall system;

(ii) each remaining smoke detector(s) (initiating devices) above the elevator entrances related to the fireman's recall system shall be witnessed by an Illinois Licensed Elevator Inspector. This shall be accomplished by alternating the witnessing of all odd floors one year and then all even floors the following year, with all odd floors corresponding to odd years and all even floors corresponding to even years. For example, all even floors shall be witnessed for the year 2020, and all odd floors shall be witnessed for the year 2021; and

(iii) a conveyance that is in a building that is on a triannual inspection schedule must have the activation of all the smoke detectors (initiating devices) witnessed by a Licensed Illinois Elevator Inspector on a triannual basis.

Documentation of these results must be kept on site with the maintenance control program.

B) Safety Code for Existing Elevators and Escalators (ASME A17.3-2005), but only as required under Section 35(h) and (i) of the Act and subsection (d) of this Section;

C) Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A18.1-~~2017~~~~2014~~);

D) Standard for the Qualification of Elevator Inspectors (ASME QEI-1-2013).

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- 2) American Society of Civil Engineers (ASCE)  
1801 Alexander Bell Drive  
Reston VA 20191-4400

Automated People Mover Standards (ANSI/ASCE/T&DI 21-13).

- b) All the materials incorporated by reference in this Section are incorporated as of the date specified and include no later editions or amendments.
- c) *The Board shall adopt, or amend and adopt, the latest editions of the standards referenced in this Section within 12 months after the effective date of the standards. [225 ILCS 312/35(a)]*
- d) Upgrade Requirements for Existing Conveyances
  - 1) *Notwithstanding anything else in this Part, the following upgrade requirements of the 2007 edition of the Safety Code for Elevators and Escalators (ASME A17.1) and the 2005 edition of the Safety Code for Existing Elevators (ASME A17.3) must be completed by January 1, 2015, but OSFM or the Local Administrator may not require their completion prior to January 1, 2013:*
    - A) *Restricted opening of hoistway doors or car doors on passenger elevators in accordance with ASME A17.3-2005;*
    - B) *Car illumination in accordance with ASME A17.3-2005;*
    - C) *Emergency operation and signaling devices in accordance with ASME A17.3-2005;*
    - D) *Phase reversal and failure protection in accordance with ASME A17.3-2005;*
    - E) *Reopening device for power operated doors or gates in accordance with ASME A17.3-2005;*
    - F) *Stop switch pits in accordance with ASME A17.3-2005; and*
    - G) *Pit ladder installation in accordance with Section 2.2.4.2 of ASME A17.1-2007.*
  - 2) *In the event that a conveyance regulated by this Part is altered, the alteration shall comply with ASME A17.1-~~2016~~2019/CSA B44-~~2016~~19.*
  - 3) *Notwithstanding anything else in this Section, the firefighter's emergency operation and the hydraulic elevator cylinder, including the associated safety devices outlined in Section 4.3.3(b) of ASME A17.3-2005, are not required to be upgraded unless:*
    - A) *There is an alteration;*
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    - C) *Failing to replace the equipment jeopardizes the public safety and welfare as determined by the Local Administrator or the Board. [225 ILCS 312/35(h) and (i)]*

- e) Non-Mandatory Guidelines. It is recommended that all conveyances be inspected and tested in accordance with the following recommended practices. The following list should not be interpreted as excluding other practices recommended by equipment manufacturers.

American Society of Mechanical Engineers (ASME)  
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Guide for Inspection of Elevators, Escalators, and Moving Walks (ASME A17.2-  
~~2017~~2012)

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