



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 2.2.5.3

Submitted by: ASME/Elevator Code Committee

2.2.5.3 The light switch shall be located to be accessible from the pit access door, and:

1. Shall be mounted 50" above the access door floor.
2. Shall not be controlled by automatic means other than allowed by A17.1 section 2.1.7 or IBC 3007.5.2
3. Shall be illuminated.
4. Shall be permitted to control all pit lights in a multi-car bank of elevators sharing the same hoistway.

Justification:

1. To facilitate locating the light switch when entering hazardous darkened areas.
2. To eliminate the possibility of all illumination turning off while working in these spaces.
3. To harmonize with NEC 110.26(D)

Cost Impact: Minimal

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 10/28/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 2.7.5.1

Submitted by: ASME/Elevator Code Committee

2.7.5.1 Working Areas in the Car or on the Car Top. The requirements of 2.7.5.1.1 through 2.7.5.1.4 shall be complied with if ~~maintenance or inspections of~~ when the elevator driving-machine brake, emergency brake, elevator motion controller, or motor controller are located in the hoistway. ~~to be carried out from inside the car or from the car top.~~

2.7.5.1.1 If When ~~Maintenance or inspection~~ any work is performed ~~of~~ to the elevator driving-machine brake or an emergency brake, or of elevator motion controllers or motor controllers from inside the car or from the car top that could result in unexpected vertical car movement, a means to prevent this movement shall be provided.

Justification: To prevent the possibility of accidental disengagement of the brakes both electrically and mechanically during work being performed on equipment located in the hoistway.

Cost Impact: Minimal

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 11/25/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/20/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 2.7.9.1

Submitted by: ASME/Elevator Code Committee

2.7.9.1 Lighting. Permanently installed electric lighting shall be provided in all machinery spaces, machine rooms, control spaces, and control rooms. The illumination shall be not less than 200 lx (19 fc) at the floor level, at the standing surface of a working platform (see 2.7.5.3), or at the level of the standing surface when the car is in the blocked position (see 2.7.5.1). The light switch shall be located

- (a) For machinery spaces and control spaces, at the point of entry
- (b) For machine rooms and control rooms, inside the room and, where practicable, on the lock-jamb side of the access door
- (c) All light switches for access to any elevator or escalator machine room, control room, machine space, or control space:
 - 1. Shall be illuminated.
 - 2. Shall not be controlled by automatic means other than allowed by A17.1 Section 2.1.7 or IBC 3007.5.2.

Justification:

- (1) To facilitate locating the light switch when entering hazardous darkened areas.
- (2) To eliminate the possibility of all illumination turning off while working in these spaces
- (3) To harmonize with NEC 110.26(D)

Cost Impact: Minimal cost impact.

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee	Date: 10/28/2024
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Development Advisory Board (DAB) Subcommittee	Date: 02/13/2025
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Development Advisory Board (DAB)	Date: 04/22/2025
<input checked="" type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
Transportation, Infrastructure and Planning Subcommittee	Date:
<input type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	
City Council Action	Date:
<input type="checkbox"/> Approved as submitted <input type="checkbox"/> Modified and approved <input type="checkbox"/> Denied <input type="checkbox"/> No action taken	



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PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 2.27.8

Submitted by: ASME/Elevator Code Committee

2.27.8 Switch Keys.

The key switches required by 2.27.2 through 2.27.5 and 2.27.11 for all elevators in a building shall be operable by the ~~FEO-K1~~ same key. The keys shall be Group 3 Security (see Section 8.1). A separate key shall be provided for each switch. These keys shall be kept on the premises in a location readily accessible to firefighters and emergency personnel, but not where they are available to the public. ~~This key shall be of a tubular, 7 pin, style 137 construction and shall have a biting code of 6143521 starting at the tab sequenced clockwise as viewed from the barrel end of the key; cutting depths shall be in accordance with Figure 2.27.8.~~ The key shall be coded the FEO-K1. "AZFS" key as designated by the authority having jurisdiction. The possession of the "FEO-K1" "AZFS" key shall be limited to elevator personnel, emergency personnel, elevator equipment manufacturers, and authorized personnel during checking of Firefighters' Emergency Operation (see Section 8.1 and 8.6.11.1).

Where provided, a lock box, including its lock and other components, shall conform to the requirements of UL 1037 (see Part 9).

Note (2.27.8): Local authorities may specify additional requirements for a uniform keyed lock box and its location, to contain the necessary keys.

Justification: Existing fire service key used by fire department and emergency personnel. This amendment reflects some wording changes with the 2022 code.

Cost Impact: Existing keys are already changed over to "AZFS".

Approved in previous 2018 Code Adoption process: ☒ YES ☐ NO

ACTION TAKEN:

2024 Code Committee Date: 11/25/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 5.3.1.8.1

Submitted by: ASME/Elevator Code Committee

5.3.1.8.1 Hoistway Enclosure Provided. Where a hoistway enclosure is provided landing openings shall be protected by swinging or horizontally sliding doors. The full height and width of the landing openings in solid hoistway enclosures shall be protected by solid swinging or horizontally sliding doors except

- a) For swing doors, the clearance between the door panel and the frame shall not exceed.
 - 1) 10 mm (0.375 in.) on the side and top of the door
 - 2) 13 mm (0.5 in.) at the bottom of the door
- b) For horizontally sliding doors, door panels shall.
 - 1) overlap the top and sides of the opening by not less than 13 mm (0.5 in.)
 - 2) not exceed 10 mm (0.375 in.) above the sill
 - 3) have a clearance between the panel and the frame not exceeding 10 mm (0.375 in.)

The doors' fire-protection rating shall be not less than required by the building code (see Section 1.3). The doors shall be designed to withstand a force of 670 N (150 lbf) applied horizontally, in either direction, over an area 100 mm x 100 mm (4 in. x 4 in.) in the center of the doors without permanent displacement or deformation.

Swing doors shall be of one-piece construction with no additional baffles, space guards, or elevator door guards as fillers to meet clearance specifications.

Justification: Clarification that removable panels are not to be used to meet required clearances.

Cost Impact: None

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee

Date: 11/25/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee

Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB)

Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

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PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 8.6.1.4.1

Submitted by: ASME/Elevator Code Committee

8.6.1.4.1 On-Site Maintenance Records

(a) Maintenance Control Program Records

(1) A record that shall include the maintenance tasks listed with the associated requirements of Section 8.6 identified in the MCP (8.6.1.2.1), other tests (see 8.6.1.2.2), examinations and adjustments, and the specified scheduled intervals shall be maintained.

(2) The specified scheduled maintenance intervals (see section 1.3) shall, as applicable, be based on the criteria given in 8.6.1.2.1(e).

(3) MCP records shall be viewable on-site by elevator personnel in ~~either hard copy or electronic~~ format acceptable to the authority having jurisdiction, located in the elevator machine room or on the car top, and shall include, but are not limited to, the following:

- (-a) sight name and address
- (-b) service provider name
- (-c) conveyance identification (I.D.) and type
- (-d) date of record
- (-e) a description of the maintenance tasks, interval, and associated requirements of section 8.6
- (-f) indication of completion of maintenance task

NOTE [8.6.1.4.1(a)]: The recommended format for documenting MCP records can be found in Nonmandatory Appendix Y. This is only an example format. A specific MCP that includes all maintenance needs is required for each unit.

(b) Repair and Replacement Records. The following repairs and replacements shall be recorded and kept on-site for viewing by elevator personnel in ~~either hard copy or electronic~~ format, located in the elevator machine room or on the car top.

Justification:

To maximize inspection efficiency by having required documents readily accessible on-site.

Cost Impact: No Cost impact.

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 11/25/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



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PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 8.6.1.7.2

Submitted by: ASME/Elevator Code Committee

8.6.1.7.2. Periodic Test Record. A periodic test record for ~~each~~ all periodic test(s) containing the ~~applicable Code requirement(s) and date(s)~~ performed, and the name of the person or firm performing the test, shall be installed to be readily visible and adjacent to or securely attached to the controller of each unit in the form of a metal tag conforming to 8.13.3. If any of the alternative test methods contained in 8.6.4.20 were performed, then the test tag shall indicate alternative testing was used for the applicable requirement.

A written periodic test report containing the applicable code requirement(s) shall be located in the maintenance records and kept on site readily available in the machine room or the car top.

Justification: Remove redundant records and reduce cost of metal tags.

Cost Impact: None, Metal tags with code requirements required larger more expensive tags.

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee

Date: 11/25/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee

Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB)

Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 8.7.1.13

Submitted by: ASME/Elevator Code Committee

8.7.1.13 Separation of Multiple Hoistways. When an alteration is performed in a multiple hoistway with one or more elevators in normal use, and work is to be performed in an adjacent portion of that multiple hoistway there shall be a full separation of the elevator hoistways between the elevators. The material used for this separation shall:

1. Be as strong as or stronger than 1.110 mm (0.0437 in.) diameter wire.
2. Have openings not exceeding 25 mm (1 in.)
3. Be supported and braced so to prevent contact between the enclosure material and the car or counterweight when subjected to a pressure of 890 N (200 lbf) applied at right angles at any point on an area 100 mm x 100 mm (4 in. x 4 in.).

Justification: Protection of passengers and equipment of elevators running beside elevators that construction or alterations are being performed.

Cost Impact: Minimal

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 11/25/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2022 American Society of Mechanical Engineers (ASME) A17.1 Section 8.11.1.3

Submitted by: ASME/Elevator Code Committee

8.11.1.3 Periodic Inspection and Test Frequency. The frequency of periodic inspections and tests shall be established by the authority having jurisdiction. Periodic inspections shall be performed every 12 months. Periodic Tests shall be performed according to Non-Mandatory Appendix N, Table N-1-1.

Justification: To Clarify when the City of Phoenix performs the Periodic Inspections and when periodic tests are required.

Cost Impact: None

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 11/25/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2023 American Society of Mechanical Engineers (ASME) A17.3 Section 3.10.12

Submitted by: ASME/Elevator Code Committee

3.10.12 System to Monitor and Prevent Automatic Operation of the Elevator With Faulty Door Contact Circuits

Means shall be provided to monitor the position of power-operated car doors that are mechanically coupled with the landing doors while the car is in the landing zone, in order

(a) to prevent automatic operation of the car if the car door is not closed [see 3.4.2(c)], regardless of whether the portion of the circuits incorporating the car door contact or the interlock contact of the landing door coupled with the car door, or both, are closed or open, except as permitted in 3.10.7.

(b) to prevent the power closing of the doors during automatic operation if the car door is fully open and any of the following conditions exist:

(1) The car door contact is closed, or the portion of the circuit incorporating this contact is bypassed.

(2) The interlock contact of the landing door that is coupled to the opened car door is closed, or the portion of the circuit incorporating this contact is bypassed.

(3) The car door contact and the interlock contact of the door that is coupled to the opened car door are closed, or the portions of the circuits incorporating these contacts are bypassed.

(c) Compliance date to be no later than four (4) years from the date of adoption.

Justification: To provide owners with reasonable time to facilitate any necessary planning required to comply.

Cost Impact: Moderate. Cost of modifying controls to accommodate new circuitry.

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee Date: 11/13/2024
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee Date: 02/13/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Date: 04/22/2025
☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action Date:
☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2023 American Society of Mechanical Engineers (ASME) A17.3 Section 3.13.3

Submitted by: ASME/Elevator Code Committee

Section 3.13.3 Compliance

Note: Items 3.13.1 through 3.13.2.2 shall have a compliance date to be no later than four (4) years from the date of adoption.

Justification: To provide owners with reasonable time to facilitate any necessary planning required to comply.

Cost Impact: Minimal

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee

Date: 11/25/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee

Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB)

Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2023 American Society of Mechanical Engineers Code (ASME) A17.3 Section 3.14

Submitted by: ASME/Elevator Code Committee

3.14 Car Tops. MITIGATION OF FALL HAZARDS ON OR AROUND CAR TOPS.

All passenger and freight elevator car tops that have a fall hazard as described by OSHA 1926.501(b) and ASME a17.1-2022 section 2.14.1.7 shall meet the requirements of ASME a17.1-2022 section 2.14.1.7, and 8.7.2.14.5.

Compliance date to be no later than four (4) years from the date of adoption.

Justification: To reduce the possibility of loss of life or limb to Elevator Personnel during Maintenance, Testing, and Inspections. Increase of Safety factor for buildings.

Cost Impact: Minimal Cost of handrail installation only on elevators with fall hazards.

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee

Date: 11/13/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee

Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB)

Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2023 American Society of Mechanical Engineers Code (ASME) A17.3 Section 4.10

Submitted by: ASME/Elevator Code Committee

4.10 Car Tops. Mitigation of fall hazards on or around car tops.

All passenger and freight elevator car tops that have a fall hazard as described by OSHA 1926.501(b) and ASME A17.1-2022 Section 2.14.1.7 shall meet the requirements of ASME A17.1-2022 Section 2.14.1.7, and 8.7.2.14.5.

Compliance date to be no later than four (4) years from the date of adoption.

Justification: To reduce the possibility of loss of life or limb to Elevator Personnel during Maintenance, Testing, and Inspections. Increase of Safety factor for buildings.

Cost Impact: Minimal. Cost of handrail installation only on elevators with fall hazards

Approved in previous 2018 Code Adoption process: ☐ YES ☒ NO

ACTION TAKEN:

2024 Code Committee

Date: 11/13/2024

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB) Subcommittee

Date: 02/13/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Development Advisory Board (DAB)

Date: 04/22/2025

☒ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken

City Council Action

Date:

☐ Approved as submitted ☐ Modified and approved ☐ Denied ☐ No action taken



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

BUILDING CONSTRUCTION CODE CHANGE PROPOSAL

Amendment to 2023 American Society of Mechanical Engineers (ASME) A17.3 Section 5.3.13

Submitted by: ASME/Elevator Code Committee

5.3.13 Combplate Vertical Safety Device

Combplate vertical safety devices shall be provided that will cause the opening of the power circuit to the escalator driving-machine motor and brake if a resultant vertical force not greater than 670 N (150 lbf) in the upward direction is applied at the center of the front of the comb-plate at each landing. These devices shall be the manual reset type.

Comb-step impact devices conforming to the requirements of ASME AI 7.1 or ASME AI 7.1/CSA B44 meet these requirements.

(a) Compliance date to be no later than four (4) years from the date of adoption.

Justification: To provide owners with reasonable time to facilitate any necessary planning required to comply.

Cost Impact: Moderate.

Approved in previous 2018 Code Adoption process: ☒ YES ☐ NO

ACTION TAKEN:

2024 Code Committee

☒ Approved as submitted ☐ Modified and approved ☐ Denied Date: 01/15/2025 ☐ No action taken

Development Advisory Board (DAB) Subcommittee

☒ Approved as submitted ☐ Modified and approved ☐ Denied Date: 02/13/2025 ☐ No action taken

Development Advisory Board (DAB)

☒ Approved as submitted ☐ Modified and approved ☐ Denied Date: 04/22/2025 ☐ No action taken

Transportation, Infrastructure and Planning Subcommittee

☐ Approved as submitted ☐ Modified and approved ☐ Denied Date: ☐ No action taken

City Council Action

☐ Approved as submitted ☐ Modified and approved ☐ Denied Date: ☐ No action taken