Dear Senators COOK, Ward-Engelking, Lakey, and
Representatives CLOW, Crane, Berch:

The Legislative Services Office, Research and Legislation, has received the enclosed rules of the Division of Occupational and Professional Licenses - Building Safety - Elevators, Escalators, and Moving Walks:

IDAPA 24.39.40 - Safety Rules for Elevators, Escalators, and Moving Walks (ZBR Chapter Rewrite) - Proposed Rule (Docket No. 24-3940-2401).

Pursuant to Section 67-454, Idaho Code, a meeting on the enclosed rules may be called by the cochairmen or by two (2) or more members of the subcommittee giving oral or written notice to Research and Legislation no later than fourteen (14) days after receipt of the rules' analysis from Legislative Services. The final date to call a meeting on the enclosed rules is no later than 12/03/2024. If a meeting is called, the subcommittee must hold the meeting within forty-two (42) days of receipt of the rules' analysis from Legislative Services. The final date to hold a meeting on the enclosed rules is 12/31/2024.

The germane joint subcommittee may request a statement of economic impact with respect to a proposed rule by notifying Research and Legislation. There is no time limit on requesting this statement, and it may be requested whether or not a meeting on the proposed rule is called or after a meeting has been held.

To notify Research and Legislation, call 334-4854, or send a written request to the address on the memorandum attached below.

Terri Kondeff
Director

Legislative Services Office
Idaho State Legislature

Serving Idaho's Citizen Legislature

MEMORANDUM

TO: Rules Review Subcommittee of the Senate Commerce & Human Resources Committee and the House Business Committee

FROM: Division Manager - Matt Drake

DATE: November 14, 2024

SUBJECT: Division of Occupational and Professional Licenses - Building Safety - Elevators, Escalators, and Moving Walks

IDAPA 24.39.40 - Safety Rules for Elevators, Escalators, and Moving Walks (ZBR Chapter Rewrite) - Proposed Rule (Docket No. 24-3940-2401)

Summary and Stated Reasons for the Rule

The Division of Occupational and Professional Licenses - Building Safety - submits Notice of Rulemaking regarding the Safety Rules for Elevators, Escalators, and Moving Walks. The Division notes that this is a Zero-Based Regulation ("ZBR") chapter rewrite. Accordingly, the Division states that this rulemaking streamlines and simplifies existing rules.

The rules refer to documents that are incorporated by reference. Some of these documents have been updated in the proposed rule as described in materials attached by the Division.

Negotiated Rulemaking / Fiscal Impact

Negotiated rulemaking was conducted. The rules are not anticipated to have a fiscal impact.

Statutory Authority

The proposed rule appears to be within the statutory authority granted to the Division in Section 39-8605, Idaho Code.

cc: Division of Occupational and Professional Licenses - Building Safety - Elevators, Escalators, and Moving Walks
Russ Barron

***** PLEASE NOTE *****

Per the Idaho Constitution, all administrative rules may be reviewed by the Legislature during the next legislative session. The Legislature has 3 options with this rulemaking docket: **1)** Approve the docket in its entirety; **2)** Reject the docket in its entirety; or **3)** Reject the docket in part.

IDAPA 24 – DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSES

24.39.40 – SAFETY RULES FOR ELEVATORS, ESCALATORS, AND MOVING WALKS

DOCKET 24-3940-2401 (ZBR CHAPTER REWRITE)

NOTICE OF RULEMAKING – PROPOSED RULE

AUTHORITY: In compliance with Section 67-5221(1), Idaho Code, notice is hereby given that this agency has initiated proposed rulemaking procedures. This rulemaking action is authorized pursuant to Section 67-2604, Idaho Code, Sections 67-9404, 67-9405, 67- 9406, 67-9409, and 67-9413, Idaho Code, as well as Title 39, Chapter 86, Idaho Code and 39-8605, Idaho Code.

PUBLIC HEARING SCHEDULE: The public hearing concerning this rulemaking will be held as follows:

24.39.40 -- Safety Rules for Elevators, Escalators, and Moving Walks

Monday, November 18, 2024
2:00 p.m. (MT)

Division of Occupational and Professional Licenses
EagleRock Room, Chinden Campus Building 4
11341 W. Chinden Blvd.
Boise, ID 83714

Virtual Meeting Link

Telephone and web conferencing information will be posted on:
https://dopl.idaho.gov/calendar/ and https://townhall.idaho.gov/

The hearing site will be accessible to persons with disabilities, if needed. Requests for accommodation must be made not later than five (5) days prior to the meeting to the agency address below.

DESCRIPTIVE SUMMARY AND STATEMENT OF PURPOSE: The following is a nontechnical explanation of the substance and purpose of the proposed rulemaking:

Under Executive Order 2020-01, Zero-Based Regulation, the Idaho Elevator Safety Program is striving to prevent the accumulation of costly, ineffective, and outdated regulations and reduce regulatory burden to achieve a more efficient operation of government. In conjunction with stakeholders, the proposed rule changes reflect a comprehensive review of this chapter by collaborating with the public to streamline or simplify the rule language in this chapter and to use plain language for better understanding. This proposed rulemaking updates the rules to comply with governing statute and Executive Order 2020-01.

FEE SUMMARY: The following is a specific description of the fee or charge imposed or increased:

N/A. This rulemaking does not increase fees.

FISCAL IMPACT: The following is a specific description, if applicable, of any negative fiscal impact on the state General Fund greater than ten thousand dollars ($10,000) during the fiscal year as a result of this rulemaking:

This rulemaking is not anticipated to have any negative fiscal impact on the state General Fund.

NEGOTIATED RULEMAKING: Pursuant to Section 67-5220, Idaho Code, negotiated rulemaking was conducted under Docket No. 24-3940-2401. Notice of Intent to Promulgate Rules - Negotiated Rulemaking was published in the July 3, 2024, Idaho Administrative Bulletin, Vol. 24-7, p.263-264.

INCORPORATION BY REFERENCE: Pursuant to Section 67-5229(2)(a), Idaho Code, the following is a brief synopsis of why the materials cited are being incorporated by reference into this rule:

The rulemaking updates the following materials cited that are incorporated by reference:

ANSI/ASME A17.1 Safety Code for Elevators and Escalators;

ANSI/ASME 17.4 Guide for Emergency Personnel;

ANSI/ASME A17.5 Elevator and Escalator Electrical Equipment;

ANSI/ASME A 17.8 Standard for Wind Tower Turbine Elevators;

ANSI/ASME A18.1 Safety Standards for Platform Lifts and Chairlifts; and

ASMI Standard for the Qualification of Elevator Inspectors.

These incorporation by references were updated to more current versions to align with new standards. An Incorporation by Reference Synopsis to see significant changes has been completed by the Division.

ASSISTANCE ON TECHNICAL QUESTIONS, SUBMISSION OF WRITTEN COMMENTS, OBTAINING DRAFT COPIES: For assistance on technical questions concerning this proposed rule, contact Krissy Veseth, Bureau Chief, at (208) 577-2491. Materials pertaining to the proposed rulemaking, including any available preliminary rule drafts, can be found on the following DOPL website: https://dopl.idaho.gov/rulemaking/.

Anyone may submit written comments regarding this proposed rulemaking. All written comments must be directed to the undersigned and must be delivered on or before November 27, 2024.

DATED this 4th day of October, 2024.

Krissy Veseth
Bureau Chief
11341 W. Chinden Blvd., Bldg. #4
Boise, ID 83714
Phone: (208) 577-2491
Email: krissy.veseth@dopl.idaho.gov

THE FOLLOWING IS THE PROPOSED TEXT OF DOCKET NO. 24-3940-2401
(ZBR Chapter Rewrite)

24.39.40 – SAFETY RULES FOR ELEVATORS, ESCALATORS, AND MOVING WALKS

000. LEGAL AUTHORITY.
This chapter is adopted by the administrator of the Division of Occupational Professional Licenses ~~in accordance with Section 39-8605~~ pursuant to Sections 39-8605, 67-2604, 67-2614, 67-9409, and 67-9406, Idaho Code.
~~(3-28-23)~~( )

001. SCOPE.
These rules govern the ~~design, construction, installation, operation, inspection, testing, maintenance, alteration, or repair of elevators, escalators, moving walks, platform lifts, material lifts, and dumbwaiters~~ operation, installation, alteration, maintenance, and repair of conveyances. ~~(3-28-23)~~( )

002. ADOPTION AND INCORPORATION BY REFERENCE.

01. Documents. The following codes, amendments, and updates are hereby adopted and incorporated by reference into these rules for all conveyances subject to this chapter. (3-28-23)

a. ANSI/ASME A17.1 20~~16~~22, Safety Code for Elevators and Escalators with the following exceptions: ~~(3-28-23)~~( )

~~i. Compliance with section 2.8.3.3.2 requires that the means for disconnecting the main power, as required by this section, to be within sight of controller for all conveyances with an elevator machine room or control room.~~ ~~(3-28-23)~~

i~~i~~. Compliance with section 8.11.2.1.5(c) Car and Counterweight Buffer testing must be conducted at slow speed in accordance with Item 5.9.2.1(~~a~~b) in ANSI/ASME A17.2 20~~14~~20. ~~(3-28-23)~~( )

ii~~i~~. Compliance with Section 2.2.2.5, which requires a sump pump or drain in the elevator pit, is optional. If a sump pump or drain is installed, it must meet the requirements of this section. A sump with a cover must be provided in each elevator pit. (3-28-23)

iii. Compliance with Section 2.27 regarding visual and text communication is operational; compliance with auto communication requirements is mandatory. ( )

b. ANSI/ASME A17.3 2015 Safety Code for Existing Elevators and Escalators. (3-28-23)

c. ANSI/ASME A17.4 ~~1999~~2015 Guide for Emergency Personnel. ~~(3-28-23)~~( )

d. ANSI/ASME A17.5 2014~~9~~ Elevator and Escalator Electrical Equipment. ~~(3-28-23)~~( )

e. ANSI/ASME A17.6 2010 Standard for Elevator Suspension, and Governor Systems. (3-28-23)

f. ANSI/ASME A17.7 2012 Performance-based Safety Code for Elevators and Escalators. (3-28-23)

g. ANSI/ASME A17.8 20~~16~~21 Standard for Wind Tower Turbine Elevators. ~~(3-28-23)~~( )

h. ICC/ANSI A117.1 2009 Accessible and Usable Buildings and Facilities. (3-28-23)

i. ANSI/ASME A18.1 20~~14~~20 Safety Standards for Platform Lifts and Chairlifts. ~~(3-28-23)~~( )

j. ASME QE-1 20~~13~~18 Standard for the Qualification of Elevator Inspectors. ~~(3-28-23)~~( )

02. Copies. Copies of the codes, amendments, and updates listed in ~~Subsection 004.01 of~~ these rules are available for review at the ~~Division of Building Safety~~ Division of Occupational and Professional Licenses offices. ~~(3-28-23)~~( )

003. -- ~~010~~099. (RESERVED)

~~011~~100. INSPECTION REQUIREMENTS.
For an inspection may to take place: (3-28-23)

~~01.~~ ~~**Access**. All machine rooms and spaces must be free of dirt and debris and have any obstacles to access removed.~~ ~~(3-28-23)~~

0~~2~~1. **Technician on Site**. An elevator technician and fire alarm technician must be present on site to restore elevator and fire alarm systems. (3-28-23)

0~~3~~2. **Installation**. The elevator installation must be complete and safe for inspection. Equipment, components, or systems installed on the conveyance must function in accordance with design and code requirements. If equipment, components, or systems are installed that are not required by the currently adopted code, they must function properly or be removed. (3-28-23)

0~~4~~3. **Inspection Fees**. Inspection fees for elevators are assessed and collected according to the schedule listed in Section 39-8616, Idaho Code, except that reinspection fees for all types of conveyances is one hundred dollars ($100) for the first hour of inspection, or portion thereof, and one hundred dollars ($100) for each hour of inspection thereafter. (3-28-23)

101. -- 199. (RESERVED)

~~012~~200. ~~APPROVAL OF NEW OR ALTERNATIVE TECHNOLOGY~~PRACTICE STANDARDS.

01. Approval of New or Alternative Technology. ( )

~~01~~a. ~~Administrator~~ Approval Required. If, due to construction or technological impediments, an elevator or conveyance cannot comply with applicable code requirements, approval of new or alternative construction or technology may be requested ~~from the administrator~~. Approval must be obtained before commencement of construction. ~~(3-28-23)~~( )

~~**02. Submission Deadline**. Details of the proposed construction or technology, including design, material specifications and calculations, and such other information as may be requested, must be submitted to the administrator at least thirty (30) days in advance of the anticipated construction start date.~~ ~~(3-28-23)~~

~~a~~i. The manufacturer of the new product or system must provide the ~~administrator~~ division of occupational and professional licenses with an Accredited Elevator/Escalator Certification Organization (AECO) approval and certification in accordance with ANSI/ASME A17.7 Performance-based Safety Code for Elevators and Escalators or engineering and test data demonstrating that the proposed technology is safe for the intended purpose. ~~(3-28-23)~~( )

~~**b.** The owner of the new product or system must provide the administrator with a document in which the owner acknowledges that the proposed technology is not governed by the applicable safety code and assures the administrator that, at such time as the code is revised to include the product or system, the owner will modify the product or system to bring it into compliance. The owner must assure the administrator that if the product or system cannot be modified or altered to bring it into compliance with the applicable code it will be removed and replaced with code-compliant equipment.~~ ~~(3-28-23)~~

~~**c.** The manufacturer of the new product or system must provide training to Division personnel on the proposed technology and any related products or systems at no cost to the Division.~~ ~~(3-28-23)~~

~~**03. Engineer Approval**. The information provided in compliance with the foregoing requirements must be approved by an Accredited Elevator/Escalator Certification Organization (AECO) or a registered professional engineer experienced in elevator or conveyance design prior to submission to the administrator.~~ ~~(3-28-23)~~

~~013~~201. -- 999. (RESERVED)

INCORPORATION BY REFERENCE SYNOPSIS

In compliance with Section 67-5223(4), Idaho Code, the following is a synopsis of the differences between the materials previously incorporated by reference in this rule that are currently of full force and effect and newly revised or amended versions of these same materials that are being proposed for incorporation by reference under this rulemaking.

The following agency of the state of Idaho has prepared this synopsis as part of the proposed rulemaking for the chapter cited here under the docket number specified:

DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSES
24.39.40 – Safety Rules for Elevators, Escalators, and Moving Walks
Proposed Rulemaking - Docket No. 24-3940-2401

The following synopsis compares the 2024 and 2019 edition of the Statement on Standards for CPE Requirements as prepared by the National Association of State Boards of Accountancy.

2014 to 2020 – A17.2 Item 5.9.2.1(a) changed to Item 5.9.2.1(b)

Editorial change only – no language change to this section.

1999 to 2015 - A17.4 Guide for Emergency Personnel

This standard outlines evacuation procedures, guidelines for selecting and training the rescue team, and other concerns. It has been updated to reflect new types of elevators in the industry and the procedures to go with them for emergency personnel. Key changes to this revision include:

- Rescue team organization and training;
- Evacuation procedures from elevator cars;
- Rescue following an earthquake;
- Elevator system lockdown;
- Firefighters' service operating procedures (in accordance with A17.1);
- Emergency/standby power operation.

2014 to 2019 – A17.5 Elevator and Escalator Electrical Equipment

This document covers the design and construction of electrical equipment for elevators, escalators, moving walks, dumbwaiters, material lifts, and elevating devices. ASME A17.5 is intended to be used in conjunction with ASME A17.1, and the electrical equipment it covers should be installed in accordance with NFPA 70: National Electrical Code.

2016 to 2021 - A17.8 Standard for Wind Tower Turbine Elevators

Changes to language were made to unify the certification process between the United States and Canada.

2013 to 2018 - QEI-1 Standard for the Qualification of Elevator Inspectors

QEI-1 is intended for the purpose of establishing uniform criteria, which will aid in: (a) qualifying and training of inspection personnel for government agencies, insurance companies, elevator companies, building owners, and managers (b) providing guidance for accredited certifying organizations. It is also intended to serve as a guideline on which certification is based by detailing the expertise necessary in performing inspections. Additionally, Appendix B was added for Qualified Elevator Inspector Trainees.

2014 to 2020 - A18.1 Safety Standards for Platform Lifts and Chairlifts

Code Reference	2014 Language	Code Reference	2020 Language
2.1.2.7	The fascia's shall not be permanently deformed when a force of 125 lbf is applied on any 4in x 4in area.	2.1.2.7	Changed fascia to surface Added: **The surface shall be capable of withstanding a force of 75lbf on a 4in x 4in surface and have deflection less than 0.75in in any location. Projections from vertical surface shall not exceed .20in; projections exceeding .08in shall be beveled at an angle of 15 deg or less to the line of travel. The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 0.375in nor more than 0.75in.**
2.1.3.3	…landing sill to the level of the bottom terminal landing sill.	2.1.3.3	Changed fascia to surface …landing sill to ~~the level of the bottom terminal landing sill.~~ **not less than 1in below the level of the platform floor on the lower mechanical stop. Where a pit is provided and is less than 1in in depth, the surface shall extend to the pit floor.**

			Added: **The surface shall be capable of withstanding a force of 75lbf on a 4in x 4in surface and have deflection less than 0.75in in any location. Projections from vertical surface shall not exceed .20in; projections exceeding .08in shall be beveled at an angle of 15 deg or less to the line of travel. The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 0.375in nor more than 0.75in.**
2.1.4.4	…landing sill to the level of the bottom terminal landing sill.	2.1.4.4	Changed fascia to surface …landing sill to ~~the level of the bottom terminal landing sill.~~ **not less than 1in below the level of the platform floor on the lower mechanical stop. Where a pit is provided and is less than 1in in depth, the surface shall extend to the pit floor.** Added: **The surface shall be capable of withstanding a force of 75lbf on a 4in x 4in surface and have deflection less than 0.75in in any location. Projections from vertical surface shall not exceed .20in; projections exceeding .08in shall be beveled at an angle of 15 deg or less to the line of travel. The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 0.375in nor more than 0.75in.**
2.1.6	Changed to 2.1.7	2.1.6	Added: **Performance Area Lifts. Performance area lifts shall be permitted only where the building codes do not require a railing at the upper level.**
2.6.2		2.6.2	Added: **Enclosures are required on all platforms, except for lifts complying with 2.1.6.**
2.6.9	NA	2.6.9	Added: **Glass in Platform Enclosures and in Runway Enclosures. Glass shall be permitted to be used subject to the requirements of 2.6.9.1 and 2.6.9.4.**
2.7.1		2.7.1	Added: **The rated speed of lifts conforming to 2.1.6 shall not exceed 10ft/min. Travel of lifts conforming to 2.1.6 shall not exceed 15in.**
2.8.6	The application of a Type A or Type B safety…	2.8.6	The application of a Type A ~~**or Type B**~~ safety…

2.10.10	Manual Operations	2.10.10	~~Manual~~ **Emergency** Operations Removed: Unless standby (emergency) power complying with para. 2.12 is provided. **Added:** **2.10.10.1 The means to manually raise or lower the lift shall provide for controlled ascent or descent not faster than the rated speed and shall be permitted to override operating devices and control equipment. The means shall be permitted to be** **(a) an independent battery-operated system to manually raise or lower the lift** **(b) a manual pump, lowering valve, or cable release device where a hydraulic drive system is used, or** **(c) other suitable means** **2.10.10.2 If an opening in the runway is required to access the means to manually raise or lower the platform, it shall be** **(a) located to permit the required access.** **(b) a maximum width of 12in and a maximum height of 12in. The opening size shall be permitted to be increased, provided that any resultant opening into the runway shall reject a 12in ball.** **(c) provided with a door that shall be kept closed and locked. Keys to unlock the access door to the lift runway shall be available only to lift personnel, emergency personnel, or other authorized personnel.** **(d) attached so that it cannot fall when opened and shall not open into the runway.** **(e) monitored so that the lift cannot be out back into normal operation without being in its closed and locked position.**
3.3.1.7	NA	3.3.1.7	**Guarding of Driving Machines. The driving machine shall be guarded to prevent accidental contact. Any opening required for operation shall reject a ball .75in in diameter. Access shall be provided for inspecting and servicing. Any guard(s) required to be removed for inspecting and servicing shall be secured in place using tamper-resistant fasteners or other tamper-resistant means.**
3.8.3.1	The application of a Type A or Type B safety…	3.8.3.1	The application of a Type A ~~**or Type B**~~ safety…

3.10.1		3.10.1	Removed: Controls shall be located within forward or side reach of the passenger as defined in ICC/ANSI A117.1.
3.10.10	Manual Operations	3.10.10	~~Manual~~ **Emergency** Operations Removed: Unless standby (emergency) power complying with para. 3.12 is provided. **Added:** **And of being accessed and operated without working directly above the platform.** **3.10.10.1 The means to manually raise or lower the lift shall provide for controlled ascent or descent not faster than the rated speed and shall be permitted to override operating devices and control equipment. The means shall be permitted to be** **(a) an independent battery-operated system to manually raise or lower the lift** **(b) a manual pump, lowering valve, or cable release device where a hydraulic drive system is used, or** **(c) other suitable means** **3.10.10.2 If an opening in the runway is required to access the means to manually raise or lower the platform, it shall be** **(a) located to permit the required access.** **(b) a maximum width of 12in and a maximum height of 12in. The opening size shall be permitted to be increased, provided that any resultant opening into the runway shall reject a 12in ball.** **(c) provided with a door that shall be kept closed and locked. Keys to unlock the access door to the lift runway shall be available only to lift personnel, emergency personnel, or other authorized personnel.** **(d) attached so that it cannot fall when opened and shall not open into the runway.** **(e) monitored so that the lift cannot be out back into normal operation without being in its closed and locked position.**
3.11.3	NA	3.11.3	Added: **If the audible signaling device(s), or the means of two-way conversation, or both, are normally connected to the building power supply, they shall**

			automatically transfer to a source of standby or emergency power as required by the applicable building code or, where applicable, NFPA 99 after the normal power supply fails. The power source shall be capable of providing for the operation of the audible signaling device and illumination of the alarm switch for at least 1h, and the means of two-way conversation for at least 4h.
4.8.3.1	…Type A or Type B…	4.8.3.1	…Type A ~~**or Type B**~~…
10	ROUTINE, PERIODIC, AND ACCEPTANCE INSPECTIONS AND TESTS Section 10 covers routine, periodic, and acceptance inspections and test. The inspections and tests shall apply to the corresponding requirements of sections 2 through 7. 10.1 General Requirements 10.1.1 Routine Inspections and Test. Routine inspections and test shall be made by an inspector employed by the authority having jurisdiction, by an inspector employed by an accredited insurance company that is the primary insurer of the equipment to be inspected, or by a person authorized by the authority having jurisdiction. 10.1.2 Periodic Inspections and Test 10.1.2.1 Periodic inspections and tests shall be witnessed by an inspector employed by the authority having jurisdiction, except as specified in para. 10.1.2.3.	10	~~**ROUTINE, PERIODIC, AND**~~ ACCEPTANCE **AND PERIODIC** INSPECTIONS AND TESTS ~~**Section 10 covers routine, periodic, and acceptance inspections and test. The inspections and tests shall apply to the corresponding requirements of sections 2 through 7.**~~ 10.1 General Requirements 10.1.1 ~~**Routine**~~ **Periodic** Inspections ~~**and Test.**~~ ~~**Routine**~~ **Periodic** inspections ~~**and test**~~ shall be made **or witnessed** by an inspector employed by the authority having jurisdiction, ~~**by an inspector employed by an accredited insurance company that is the primary insurer of the equipment to be inspected, or by a person authorized by the authority having jurisdiction.**~~ Added: **10.1.1.1 The inspector shall submit a signed written report to the authority having jurisdiction containing the following information:** **(a) date and time of inspection(s)** **(b) type and test(s) performed** **(c) detailed results of the test(s)** **(d) code deficiencies noted during the inspection and test(s), including references to the applicable code and rule number(s)** **(e) statement as to any corrective action taken** 10.1.2 Periodic ~~**Inspections and**~~ Test**(s)** 10.1.2.1 Periodic ~~**inspections and**~~ tests shall be ~~**witnessed**~~ **made** by ~~**an inspector employed by the authority having jurisdiction, except as specified in para. 10.1.2.3.**~~ **lift personnel in the presence of the inspector specified in 10.1.1.** Removed: 10.1.2.2 and 10.1.2.3

			Change: 10.1.4 changed to 10.1.3 10.1.5 changed to 10.1.4 10.1.6 changed to 10.1.5 10.2.2 changed to 10.1.6 Section 10.2 is now One-Year Test Requirements Section 10.3 is now Acceptance and 5-Year Periodic Inspections and Tests
Nonmandatory App A	NA	Nonmandatory App A	**Added: Performance Area Lifts**
Nonmandatory App B	NA	Nonmandatory App B	**Added: Controls for Performance Area Lifts**

2016 to 2022 – A17.1 Safety Code for Elevators and Escalators

Code Reference	**2016 Language**	**Code Reference**	**2022 Language**
2.1.1.5	NA	2.1.1.5	Added: **The building structural supports of the entrance, such as building beams, walls, and floors, shall be designed to withstand the horizontal forces stipulated in 2.11.11.8, 2.11.12.4.6, or 2.11.13.3.5, whichever is applicable.**
2.1.7	NA	2.1.7	Section Added: **Illumination of Hoistways** **Permanent lighting shall be provided to illuminate the hoistway. The hoistway lighting shall provide an illumination of not less than 50 lx (5fc), excluding shadows created by the car or components, measured at the center of the car top throughout travel of the car when the car top lights (see 2.14.7.1.4) are off and all hoistway doors are closed. The lighting**

			components shall be guarded where necessary to prevent contact or accidental breakage. All lighting components requiring maintenance or service shall be located within safe and convenient access from the car top. The location shall be identified on the layout drawing [see 2.28.1(m)]. 2.1.7.1 The lighting shall conform to the requirements of 2.17.11 through 2.1.7.1.5. 2.1.7.1.1 Light switches (manual control) for the hoistway lighting shall be located within the hoistway enclosure and accessible from (a) the pit access door (b) the top landing 2.1.7.1.2 The light switches for illumination of pits (see 2.2.5.3) and for illumination of machinery space in the hoistway (see 2.7.9.1) shall be permitted to be used as the light switch required by 2.1.7.1.1(a) and 2.1.7.1.1(b). respectively. 2.1.7.1.3 The hoistway lighting shall automatically turn on when (a) the hoistway access enable switch for any car in the hoistway (see 2.12.7.3.2) is in the “ENABLE” position (b) an inspection operating device for any car in the hoistway (see 2.26.1.4.1) in the “INSPECTION” position (c)Firefighters’ Emergency Operation is in effect (see 2.27.3 and 2.27.4) 2.1.7.1.4 The light switches shall not turn off the hoistway lighting when any of the conditions in 2.1.7.1.3 are in effect. 2.1.7.1.5 Control signals shall be provided to the building system for lighting the hoistway when any of the conditions in 2.1.7.1.3 are in effect.

			2.1.7.2 If the building is equipped with emergency or standby power, the hoistway lighting shall be on the same emergency power system as the elevator equipment.
2.2.2.5	Sump pump requirement per elevator	2.2.2.5	changed to per **single hoistway or multiple hoistway.**
2.2.4.2.2	The ladder rungs, cleats, or steps shall be a minimum of 400 mm (16 in.) wide. When Obstructions are encountered, the width shall be permitted to be decreased to less than 400 mm (16 in.). The reduced width shall be as wide as the available space permits, but not less than 225 mm (9 in.).	2.2.4.2.2	Removed decreased ladder size: The ladder rungs, cleats, or steps shall be a minimum of 400 mm (16 in.) wide. ~~When Obstructions are encountered, the width shall be permitted to be decreased to less than 400 mm (16 in.). The reduced width shall be as wide as the available space permits, but not less than 225 mm (9 in.).~~
2.2.4.2.5		2.2.4.2.5	Added: **When Obstructions are encountered, the clear distance adjacent to the side rails shall be permitted to be decreased to less than 115 mm (4.5 in.). When the clear distance is decreased to less than 115 mm (4.5 in.), ladder rungs, cleats, or steps shall be provided above the height of the access door sill to the top of the ladder.**
2.2.4.2.7	Retractable ladders that are in the line of movement of the car or counterweight when not fully retracted shall operate a retractable ladder electrical device (see 2.26.2.38) that shall cause the power to be removed from the elevator driving-machine motor and brake unless the ladder is in its fully retracted position.	2.2.4.2.7	**The ladder shall have a ladder electrical device (see 2.26.2.38) that shall cause the power to be removed from the elevator driving-machine motor and brake when a person is detected on the ladder. The device is permitted to detect the person directly by weight, by movement or removal of a guard to enable use of the ladder, or by other detection means. If detecting directly by weight, the device shall remove power when more than 9 kg (20 lb) is applied to any rung of the ladder. If a guard or other detection means is used, the device shall remove power when the guard is moved or removed, or the other detection means is opened or activated.**
2.2.4.2.8	Retractable ladders shall be capable of being extended, mechanically secured and unsecured, and retracted from the access door, and (a0 the force(s) required to extend a retractable ladder from the fully retracted position to the extended and mechanically	2.2.4.2.8	**Retractable ladders that are in the line of movement of the car or counterweight when not fully retracted shall operate a ladder electrical device (see 2.26.2.38) that shall cause the power to be removed from the elevator driving-machine motor and brake unless the ladder is in its fully retracted position.**

	secured position shall not exceed 220 N (50 lbf) (b) after being extended and mechanically secured, a retractable ladder shall remain secured in the extended position when subjected to a horizontal force not to exceed 2 220 N (500 lbf) (c) the force(s) required to retract a retractable ladder from its extended position to its fully retracted position, after being unsecured, shall not exceed 220 N (50 lbf) (d) the ladder shall be mechanically secured when in the retracted position		
2.2.9	NA	2.2.9	Added: **Flood Detection Means** **For elevators required to comply with section 8.12, where there is the potential for any part of the elevator to descend or operate below the flood elevation during a flood event, the elevator shall be equipped with a flood detection means (see 2.27.13), located in the pit at a location between 150 mm and 300 mm (6 in. and 12 in.) above the pit floor.**
2.8.2.4	NA	2.8.2.4	**This is an added section for testing and maintaining fire alarm initiating devices. (**Items are paraphrased)** **(a) means to provide air sampling (b) access panels into hoistway** **(1) Hoistway penetration for access panels used for installing, testing and servicing fire alarm initiating devices shall comply with 2.1.1.1.3** **(2) Access panels shall be rated and listed for the application for which they are installed and shall be a maximum of 16in x16in. Access panels shall not swing into hoistway.** **(3) Access panel doors shall be self-closing and self-locking. Group 2 security** **(4) Protective guards (cages) on devices in hoistway** **(5) Protective guards (cages) on devices in hoistway shall separate the rest of the hoistway from the space containing the fire alarm initiating device.** **(6) Protective guards (cages) on devices in hoistway shall not extend more than 16in into hoistway**

			(7) Protective guards (cages) on devices in hoistway approval of layout drawings by elevator installer prior to installation
2.8.3.1.4	NA	2.8.3.1.4	**The means used for air-sampling smoke detection systems shall be permitted to be installed in hoistways, machinery spaces, machine rooms, control spaces, and control rooms for the purpose of detecting smoke in accordance with 2.27.3.2, Phase I Emergency Recall Operation by Fire Alarm Initiating Devices, and shall not encroach upon required clearances.**
2.8.3.3		2.8.3.3	Added: **NOTE (2.8.3.3): Requirements for automatic sprinklers are addressed in the building code and NFPA 13, which may prohibit the installation of sprinklers in specific locations, such as in machine rooms, elevator machinery spaces, control rooms, control spaces, and elevator hoistways of elevators meeting the requirements of 2.27.10 or 2.27.11.**
2.8.7	NA	2.8.7	Added: **Emergency Responder Radio Coverage Equipment Inside Hoistways** **Emergency responder radio coverage (ERRC) equipment shall be permitted to be installed within the elevator hoistway (See 2.8.1) for exclusive use by emergency responders. Where provided, ERRC equipment shall be designed, installed, and maintained so as not to create an interference with elevator operation, inspection, repair, or maintenance. ERRC equipment in the elevator car shall comply with 2.27.12 [see also 2.14.1.9.1(g)]. ERRC equipment in the hoistway shall conform to 2.8.7.1 through 2.8.7.3.**
2.14.1.9.1		2.14.1.9.1	Added: **(g) Emergency responder radio coverage (ERRC) equipment is permitted inside cars (see also 2.27.12).**
2.26.2.38	Retractable Ladder Electrical Device. An electrical contact conforming to the following shall be provided where required by 2.2.4.2.7: (a)be positively opened by a device attached to and operated by the ladder (b) not use mercury tube switches	2.26.2.38	~~**Retractable**~~ Ladder Electrical Device. ~~**An**~~ **A ladder** electrical ~~**contact conforming to the following**~~ **device** shall be provided where required by 2.2.4.2.7 **or 2.2.4.2.8.:** ~~**(a)be positively opened by a device attached to and operated by the ladder**~~ ~~**(b) not use**~~ mercury tube switches **shall not be used for this device.**
2.26.13	NA	2.26.13	Added: **RIO Remote Interaction Operation**
2.26.14	NA	2.26.14	Added:

			TED Test Enable Operation
Section 2.27	No visual communication screen	Section 2.27	**Added visual communication for hearing impaired** 2.27.1.1.3 (c) through (i) updated (j) and (k) added
2.27.1.1.3	(c) A visual indication on the same panel as the "PHONE" push button shall be provided, that is activated by authorized personnel, to acknowledge that two-way communications link has been established. The visual indication shall be extinguished when the two-way communication link is terminated. (d) The two-way communication means shall provide on demand to authorized personnel, information that identifies the building location and elevator number and that assistance is required. (e) After the call acknowledgment signals are sent [2.27.1.1.3(c)], the two-way voice communications shall be available between the car and authorized personnel. (f) The two-way communications, once established, shall be disconnected only when authorized personnel outside the car terminate the call or a timed termination occurs. A timed termination by the two-way communication means in the elevator, with the ability to extend the call by authorized personnel, is permitted if voice notification is sent a minimum of 3 min after communication has been established. Upon notification, authorized personnel shall have the ability to extend the call, automatic disconnection shall be permitted if the means to extend are not enacted within 20 s of the voice notification.	2.27.1.1.3	(c) ~~A visual indication~~ on the same panel as the **phone** ~~"PHONE"~~ push button ~~shall be provided~~, **a message shall be displayed** that is activated by authorized personnel, to acknowledge that ~~two-way~~ communications ~~link has been~~ **are** established. ~~The visual indication~~ **The message** shall be **permitted to be** extinguished **where necessary to display a new message [see (d) and (e)] or when the** ~~when the two-way~~ communication**s are** ~~link is~~ terminated. (d) **On the same panel as the phone push button, messages shall be displayed that permit authorized personnel to communicate with and obtain responses from a trapped passenger(s), including a passenger(s) who cannot verbally communicate or hear.** (e) **On the same panel as the phone push button, a message shall be displayed that is activated by the authorized personnel to indicate when help is on the way. The message shall continue to be displayed until a new message is displayed [see 2.27.1.1.4 (c)] or the communications are terminated.** (f) **The communications means shall provide on demand to authorized personnel information that identifies the building location and elevator number.** (g) **The communications, once established, shall be disconnected only when authorized personnel terminate the call or a timed termination occurs. A timed termination by the communications means in the elevator, with the ability to extend the call by authorized personnel, is permitted if voice notification is sent by the communications means to authorized personnel a minimum of 3 min after communication has been established. Upon notification, authorized personnel shall have the ability to extend the call; automatic disconnection shall be permitted if the means to extend are not enacted within 20 s of the voice notification.** (h) **The communications means shall not use a handset in the car.** (i) **The communications shall not be transmitted to an automated answering system. The call shall be answered by authorized personnel.** **(j) Operating instructions shall be incorporated with or adjacent to the phone push button.**

	(g) The two-way communication means shall not use a handset in the car. (h) The two-way communications shall not be transmitted to an automated answering system. The call for help shall be answered by authorized personnel. (i) Operating instructions shall be incorporated with or adjacent to the "PHONE" push button.		**(k) A means to display video to observe passengers at any location on the car floor, to authorized personnel for entrapment assessment, shall be provided.**
2.27.1.1.4		2.27.1.1.4	Added: **(g) When provided, the communication means within the building accessible to emergency personnel shall be located in one of the following locations:** **(1) in jurisdictions not enforcing the NBCC, the fire command center (FCC).** **(2) NA to Idaho** **(3) in buildings without an FCC, on the designated level in a location approved by the fire authority. This means shall be key operated or behind a locked cover. The key shall be Group 3 Security (see Section 8.1)**
2.27.3.2.1	(c) in the elevator hoistway, when sprinklers are located in those hoistways	2.27.3.2.1	**(c) in the elevator hoistway when sprinklers are located in those hoistways more than 24in above the pit floor or when required by other applicable codes or standards to actuate elevator hoistway smoke relief equipment** **NOTES;** **(2) 2.27.3.2.1(c): A fire alarm initiating device is not required in the pit regardless of the presence of sprinklers.**
2.27.6		2.27.6	Added: **…test enable operation (see 2.26.14)…**
2.27.10	Reserved for future use	2.27.10	**Elevator(s) for Use by Firefighters** **2.27.10.1 Fire service Access Elevators. In jurisdictions not enforcing NBCC, Fire Service Access Elevators shall be provided when required by the building code. Control signal(s) shall be provided to the building system for lighting the hoistway when Firefighters' Emergency Operation is active.** **And shall** **(a) provide control signal(s) to the building system for lighting the hoistway when Firefighters' Emergency Operation is active.**

			(b) be identified as Fire Service Access Elevators in accordance with the requirements of the building code **NOTE (2.27.10.1): See 2.1.7.1.3(c) and 2.1.7.1.5 for hoistway lighting requirements during Firefighters' Emergency Operation.** **2.27.10.2 Firefighters' Elevators. In jurisdictions not enforcing NBCC, a symbol showing a red firefighters' hat on a contrasting background, as shown in Figure 2.27.3.1.6** **(figure not to scale), shall be used exclusively to identify elevators that comply with both 2.27.3 and additional NBCC requirements. This identification shall be located on the elevator entrance frame or adjacent to it at each emergency recall level. The identification on the entrance frame, or adjacent to it, shall be a minimum 50 mm (2 in) in height.** **Freight elevators and hydraulic elevators shall not be designated as Fire Service Access Elevators (see 2.27.10.1) not Firefighters' Elevators (see 2.27.10.2).** **NOTE (2.27.10): Requirements for automatic sprinklers are addressed in the building code and NFPA 13, which may require the installation of sprinklers in specific locations, such as in machine rooms, elevator machinery spaces, control rooms, control spaces, and elevator hoistways of elevators.**
3.26.12	NA	3.26.12	**RIO – Remote Interaction Operation**
6.1.3.4.5	The vertical height from step nose to top of handrail shall be not less than 35in nor more than 39in.	6.1.3.4.5	The vertical height from step nose to top of handrail shall be not less than 35in nor more than ~~39in~~ **43in.**
6.1.5.3.4	NA	6.1.5.3.4	Added: **Escalator Driving-Machine Motor-Controlled Dynamic Braking.** Motor-controlled dynamic braking of an escalator by variable-frequency control of the escalator driving-machine motor shall be permitted, provided that (a), (b), (c) and (d)
6.1.5.3.5	NA	6.1.5.3.5	Added:

			Auxiliary Brake. Escalators not utilizing dynamic braking (see 6.1.5.3.4) and with a rise greater than 20 ft shall be equipped with an auxiliary brake that complies with the brake requirements in 3.15.3.1 and 6.15.3.3. **(a) Application of the auxiliary brake shall be caused only by one of the following:** **(1) by actuation of the escalator speed monitoring device (see 6.1.6.3.2)** **(2) by actuation of the drive-chain device if the auxiliary brake is located on the main shaft and utilized to also function as a main driveshaft brake (6.15.3.2) when a main driveshaft brake is required.** **(b) In addition to (a), the auxiliary brake shall be applied after the escalator has stopped.** **(c) Where simultaneous application of the driving machine brake and auxiliary brake occur, requirement 6.1.1.5.3.1(c) does not apply.**
Section 7.2		Section 7.2	Removed hand dumbwaiter
7.2.12.41	NA	7.2.12.41	Remote interaction operation is prohibited (see 2.26.13)
7.5.12.1.26	NA	7.5.12.1.26	**RIO – Remote Interaction Operation. Remote interaction operation is prohibited (see 2.26.13).**
7.5.12.2.35	NA	7.5.12.2.35	**RIO is prohibited (see 2.26.13).**
7.6.8.1		7.6.8.1	**(g) RIO – Remote Interaction Operation. Remote interaction operation is prohibited (see 2.26.13).**
8.1.2	Group 1 covers access to or operation of equipment restricted to elevator personnel, except as noted.	8.1.2	Group 1 covers access to or operation of equipment restricted to elevator personnel, except as ~~noted.~~ **Indicated in (i) and (j).** Added: **(aa) Requirement 2.27.13.1(f), Flood Detection Operation reset means.**
Section 8.3		Section 8.3	Added: **(8) cybersecurity for elevators as required in Section 8.14 (see 8.3.16)**
8.3.16	NA	8.3.16	**Engineering Test for Cybersecurity**
Section 8.4		Section 8.4	(4) **consult the engineer of record.**
Section 8.5		Section 8.5	(4) **consult the engineer of record.**
8.6.1.2.2	The documents specified in (a) through (c) shall be written and permanently kept on-site…	8.6.1.2.2	**The documents specified in (a) through ~~(c)~~ (d) and (f) through (h) shall be written and permanently kept on-site…** **Added:**

			(g) The documentation for the engineering test of skirt panels deflection for units installed or altered under ASME A17.1-2019 and later editions (see 8.3.15.5). **(h) The elevator manufacturer or supplier of the installed internet-capable device and internet-capable elevator controller shall provide on-site documentation for cybersecurity maintenance and inspection requirements for the internet-capable equipment in accordance with the applicable requirements of IEC 62443.** **(i) Where test enable operation for limited and general test is provided [see 2.26.7(f)], documentation specifying the location of the test enable device (see 2.26.14.1), a list of the electrical protective devices (see 2.26.14.7) that can be made ineffective by the means for limited and general test (see 2.26.14.3) and 2.26.14.4), and an inspection and test procedure to demonstrate compliance with 2.26.14.1 and 2.26.14.3 through 2.26.14.6.**
8.6.3.1		8.6.3.1	Added: **An internet-connected or connectivity-enabled device that is interfaced (directly or indirectly) to an elevator controller or an elevator controller that is connected to the internet shall conform to 8.14.1.**
NA	NA	8.6.4.19.18	**Door reopening Device(s). The detection means of the door reopening device(s) shall be examined and tested to verify proper operation (Item 1.1.1)**
8.6.4.19.21	NA	8.6.4.19.21	**System to Monitor and Prevent Automatic Operation of the Elevator with Faulty Door Circuits.** Where provided, the system to prevent automatic operation of the elevator with faulty door circuits (see 2.26.5) shall be tested. The person or firm maintaining the equipment shall provide a written test procedure as part of the on-site documentation [see 8.6.1.2.2(d)(5)] and demonstrate that the elevator meets the applicable requirements of 2.26.5 and ASME A17.3, para. 3.10.12.
8.6.4.24	NA	8.6.4.24	**System to Monitor and Prevent Automatic Operation of Passenger and Freight Elevators with Faulty Door Contact Circuits.**
8.6.5.14.12	NA	8.6.5.14.12	**System to Monitor and Prevent Automatic Operation of the Elevator with Faulty Door Circuits.**
8.6.8.15.24	Maintenance of Seismic Devices	8.6.8.15.24	~~Maintenance of Seismic Devices~~

			Skirt Obstruction Devices
8.6.8.15.25	Skirt Obstruction Devices	8.6.8.15.25	~~Skirt Obstruction Devices~~ **Testing of Alternative Arrangements and ASME A17.7**
NA	NA	8.6.8.15.26	Added: **Testing of Alternative Arrangements and ASME A17.7 – Conforming Equipment.**
8.6.8.16	NA	8.6.8.16	**Maintenance of Seismic Devices**
8.7.1.11	NA	8.7.1.11	**Seismic Requirements** **8.7.1.11.1 Application. For alterations, 8.4(a) through 8.4(d) shall define when to apply the elevator seismic requirements to existing units installed under** **(a) ASME A17.1-1993 and later editions in jurisdictions** **8.7.1.11.2 Building Considerations. If the structural supports for the installation have been strengthened to accommodate increased seismic forces, the ground motion parameters provided but the structural engineer of record shall be used in conjunction with Section 8.4.**
8.7.1.12	NA	8.7.1.12	**Internet Connectivity-Enabled Devices or Elevator Controllers** **Where there is an alteration to or the addition of an internet-connected or connectivity-enabled device that is interfaced (directly or indirectly) to an elevator controller, or where an elevator controller is connected to the internet, the alteration or addition shall conform to 8.14.1.**
8.7.2.1.1		8.7.2.1.1	Added: **(i) Requirements 8.4.1 and 8.4.3.2, if seismic requirements apply (see 8.7.1.11)** **For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.1.2		8.7.2.1.2	Added: **If seismic requirements apply, see Section 8.4.1 and 8.7.1.11.** **For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.1.3		8.7.2.1.3	Added: **If seismic requirements apply, see Section 8.4.3.2 and 8.7.1.11.** **For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**

8.7.2.1.4		8.7.2.1.4	Added: **If seismic requirements apply, see Section 8.4.3.2 and 8.7.1.11.** **For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.2.1		8.7.2.2.1	Added: **If seismic requirements apply, see 8.4.6 and 8.7.1.11.** (1) **For inspection and test requirements, see 8.10.2.3.2(x). For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.5		8.7.2.5	Added: **If seismic requirements apply, see 8.4.1 and 8.7.1.11.** (1) **For inspection and test requirements, see 8.10.2.3.2(z). For inspection and test requirements for seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.14.2		8.7.2.14.2	Added: **For inspection and test requirements, see 8.10.2.3.2(ff). For inspection and test requirements for seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.15.1		8.7.2.15.1	Added: **If seismic requirements apply, see 8.4.4.1, 8.4.5 and 8.7.1.11.** **For seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.15.2		8.7.2.15.2	Added: **(k) if seismic requirements apply, see 8.4.4.1, 8.4.5 and 8.7.1.11.** **For seismic alterations or additions, see 8.10.2.3.2(ss).**
8.7.2.16		8.7.2.16	Added: **(i) if seismic requirements apply, see 8.4.4.1 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.17.2		8.7.2.17.2	Added: **(12) Section 2.15, except the car platform guard (apron) shall conform to 2.15.9 only to the extent the existing pit shall permit, but in no case less than the leveling or truck zone plus 3in.**
8.7.2.20		8.7.2.20	Added: **, including conformance to requirement Section 2.15, except the car platform guard (apron) shall conform to 2.15.9 only to the extent the existing pit shall permit, but in no case less than the leveling or truck zone plus 3in.**

8.7.2.21		8.7.2.21	Added: **(c) if seismic requirements apply, see 8.4.3.1, 8.4.3.2 and 8.7.1.11.**
8.7.2.22		8.7.2.22	Added: **If seismic requirements apply, see 8.4.7 and 8.7.1.11.**
8.7.2.24		8.7.2.24	Added: **If seismic requirements apply, see 8.4.8 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.25		8.7.2.25	Added: **Section 2.15, except the car platform guard (apron) shall conform to 2.15.9 only to the extent the existing pit shall permit, but in no case less than the leveling or truck zone plus 3in.** **If seismic requirements apply, see 8.4.2, 8.4.3, 8.4.8.2 through 8.4.8.4, 8.4.9 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.27.4		8.7.2.27.4	Added: **(f) if seismic requirements apply, see 8.4.10.1 and 8.7.1.11.** (a) **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.27.5		8.7.2.27.5	Added: **(o) if seismic requirements apply, see 8.4.3.1, 8.4.3.2, 8.4.4.1, 8.4.5, 8.4.6, 8.4.7.1, 8.4.7.2, 8.4.8.2.1 through 8.4.8.2.4, 8.4.8.6, 8.4.9, 8.4.10 and 8.7.1.11.** **(p) Requirement 2.15.9 applies, except the car platform guard (apron) shall conform to 2.15.9 only to the extent the existing pit shall permit, but in no case less than the leveling or truck zone plus 3in.** **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.2.27.6		8.7.2.27.6	Added: **(q) if seismic requirements apply, see 8.4.3.1, 8.4.3.2, 8.4.4.1, 8.4.5, 8.4.6, 8.4.7.1, 8.4.7.2, 8.4.8.2.1 through 8.4.8.2.4, 8.4.8.6, 8.4.9, 8.4.10 and 8.7.1.11.** **(r) Requirement 2.15.9 applies, except the car platform guard (apron) shall conform to 2.15.9 only to the extent the existing pit shall permit, but in no case less than the leveling or truck zone plus 3in.** **For seismic alterations or additions, see also 8.10.2.3.2(ss).**
8.7.3.3		8.7.3.3	Added:

			(q) if seismic requirements apply, see 8.4.11.3, 8.4.11.7 and 8.7.1.11. **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.14		8.7.3.14	Added: **(q) if seismic requirements apply, see 8.4.11.3, 8.4.11.5.1, 8.4.11.5.2 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.23		8.7.3.23	Added: **If seismic requirements apply, see 8.4.11.9, 8.4.11.12, 8.4.11.13, and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.24		8.7.3.24	Added: **If seismic requirements apply, see 8.4.11.9, 8.4.11.12, 8.4.11.13, and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.25		8.7.3.25	Added: **If seismic requirements apply, see 8.4.11.13, and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.26		8.7.3.26	Added: **If seismic requirements apply, see 8.4.11.7 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.31.5		8.7.3.31.5	Added: **(f) If seismic requirements apply, see 8.4.10 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.2.3.2(tt).**
8.7.3.31.6		8.7.3.31.6	Added: **(n) If seismic requirements apply, see 8.4.10, 8.4.11.3, 8.4.11.5.1, 8.4.11.5.2, 8.4.11.7, 8.4.11.9, 8.4.11.12, 8.4.11.13, 8.4.11.14 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
8.7.3.31.7		8.7.3.31.7	Added: **(o) If seismic requirements apply, see 8.4.10, 8.4.11.3, 8.4.11.5.1, 8.4.11.5.2, 8.4.11.7, 8.4.11.9, 8.4.11.12, 8.4.11.13, 8.4.11.14 and 8.7.1.11.** **For seismic alterations or additions, see also 8.10.3.3.2(ss).**
NA	NA	8.7.3.31.13	**Door Monitoring System. Where there is an alteration to or addition of a system to monitor and prevent automatic operation of the elevator with faulty door contact circuits on power-operated car doors that are**

			mechanically coupled with the landing doors while the car is in the landing zone, the alteration shall conform to 2.26.5.
8.10.2.2.3		8.10.2.2.3	Editorial change only
8.10.2.2.4		8.10.2.2.4	Added: **(p) Motor controllers Not installed in a Machine Room, Control Room, Control Space, or Machinery Space (Item 11.23)** **(1) cabinet enclosure** **(2) accessible to general public (AGP) marking** **(3) cabinet doors and security** **(4) lighting** **(5) temperature and humidity control** **(6) signage**
8.10.2.3.2		8.10.2.3.2	Added: **(ss) Where an alteration involves seismic requirements, they shall be inspected and tested as specified in 8.10.2.2.1(y), 8.10.2.2.2(qq), 8.10.2.2.2(rr), 8.10.2.2.3(jj), 8.10.2.2.3(kk), and 8.10.2.2.5(q).** **(tt) Where alterations have been made to RIO, verify conformance with 2.26.13. See also 8.6.1.2.2(d)(4).** **(uu) Where alterations have been made to internet connectivity-enabled devices or elevator controllers, verify conformance with 8.14.1. See also 8.6.1.2.2(g).**
8.10.3.3.2		8.10.3.3.2	Added: **(qq) Where an alteration has been made to RIO, verify conformance with 3.26.12. See also 8.6.1.2.2(d)(4).** **(rr) Where alterations have been made to internet connectivity-enabled devices or elevator controllers, verify conformance with 8.14.1. See also 8.6.1.2.2(g).** **(ss) Where an alteration involves seismic requirements, they shall be inspected and tested as specified in 8.10.3.2.1(y), 8.10.3.2.3(kk) and 8.10.3.2.5(v).**
8.11.4.1		8.11.4.1	Added: (w) Escalator/Moving Walk Dynamic Braking (items 8.4 and 10.4)
8.12.1		8.12.1	Added: **NOTE: For flood Detection Operation see 2.27.13 and 3.27.5.**

Section 8.14	NA	Section 8.14	**Cybersecurity**
Figure I-15	NA	Figure I-15	**Escalator/Moving Walk Dynamic Braking Logic**