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**IDAPA 17
TITLE 07
CHAPTER 01**

17.07.01 - SAFETY RULES FOR ELEVATORS, ESCALATORS AND MOVING WALKS

000. LEGAL AUTHORITY.

These rules are promulgated pursuant to the authority granted the Industrial Commission by Sections 72-508, 72-720, 72-721, 72-722, and 72-723, Idaho Code. (7-1-97)

001. TITLE AND SCOPE.

01. Title. These rules shall be cited as IDAPA 17.07.01, "Safety Rules for Elevators, Escalators and Moving Walks". (3-30-01)

02. Scope. These rules shall be applicable to all persons engaged in the design, construction, installation, operation, inspection, testing, maintenance, alteration or repair of elevators, dumbwaiters, moving walks, material lifts, wheelchair lifts, stairway chair-lifts, and escalators. (3-30-01)

002. WRITTEN INTERPRETATIONS.

There are no written statements which pertain to the interpretation of these rules. (7-1-97)

003. ADMINISTRATIVE APPEALS.

There are no provisions for administrative appeal of these rules. The procedures for appeals in safety matters are prescribed by Sections 72-714 through 72-718 and 72-722, Idaho Code. (5-3-03)

004. INCORPORATION BY REFERENCE.

01. ANSI/ASME A17.1. - 2002 edition, Safety Code for Elevators and Escalators. (5-3-03)

02. ANSI/ASME A17.2. - 2001 edition, Guide for Inspection of Elevators, Escalators, and Moving Walks. (5-3-03)

03. ANSI/ASME A17.3. - 2002 edition, Existing Elevators and Escalators. (5-3-03)

04. ANSI/ASME A17.4. - 2000 edition, Emergency Evacuation of Passengers from Elevators. (3-15-02)

05. ANSI/ASME A17.5. - 1996 edition, Standard for Elevator and Escalator Electrical Equipment. (3-30-01)

06. ANSI/ASME A10.4. - 1990 edition, Safety Requirements for Personnel Hoists and Employee Elevators for Construction and Demolition of Operations. (3-30-01)

07. ANSI A117.1, Section 407. - 1998 edition, Accessible and Usable Buildings and Facilities, Elevators. (3-30-01)

08. ANSI A18.1. - 2001 edition, Safety Standards for Platform Lifts and Stairway Chairlifts. (3-15-02)

09. ASME QEI-1 – 2001 edition, Standards for the Qualification of Elevator Inspectors. (5-3-03)

005. OFFICE ADDRESS AND HOURS.

The standards incorporated by reference herein are available for review at the Division of Building Safety, 1090 E. Watertower St., Meridian Idaho, 83642 between the hours of 8 a.m. and 5 p.m., except Saturday, Sunday and legal holidays. (5-3-03)

006. -- 009. (RESERVED).

010. DEFINITIONS.

- 01. Alteration.** Any change to equipment other than maintenance, repair, or replacement. (3-30-01)
- 02. Approved.** Acceptable to the authority having jurisdiction. (7-1-97)
- 03. Authority Having Jurisdiction.** The State of Idaho, Industrial Commission. (5-3-03)
- 04. Authorized Personnel.** Persons who have been instructed in the operation and/or maintenance of the equipment designated by the owner to use or maintain the equipment. (7-1-97)
- 05. Building Code.** The latest state adopted version of the International Building Code. (5-3-03)
- 06. Certified.** A certification by a testing laboratory, a professional engineer, a manufacturer, or a contractor that a device or an assembly conforms to the requirements of the Safety Code for Elevators and Escalators (ASME A17.1). (7-1-97)
- 07. Competent Person.** A person who is capable of identifying existing and predictable hazards and who has authorization to take prompt corrective action to eliminate them. (7-1-97)
- 08. Designated Attendant.** A person who operates an elevator that is controlled from the inside of the car. (3-30-01)
- 09. Designated Level.** The main floor or other level that best serves the needs of emergency personnel for firefighting or rescue purposes. (3-30-01)
- 10. Director.** The administrator of the Division of Building Safety. (3-30-01)
- 11. Division.** The Division of Building Safety. (5-3-03)
- 12. Dumbwaiter.** A hoisting and lowering mechanism equipped with a car of limited size which moves in guide rails and serves two (2) or more landings, and classified by the following types: (3-30-01)
- a.** Hand dumbwaiter. A dumbwaiter utilizing manual energy to move the car. (3-30-01)
- b.** Power dumbwaiter. A dumbwaiter utilizing energy other than gravitational or manual to move a car. (3-30-01)
- c.** Electric dumbwaiter. A power dumbwaiter where the energy is applied by means of an electric driving machine. (3-30-01)
- d.** Hydraulic dumbwaiter. A power dumbwaiter where the energy is applied, by means of a liquid under pressure, in a cylinder equipped with a plunger or piston. (3-30-01)
- e.** Direct plunger hydraulic dumbwaiter. A hydraulic dumbwaiter having a plunger or cylinder directly attached to the car frame or platform. (3-30-01)
- f.** Electro-Hydraulic Dumbwaiter. A direct plunger dumbwaiter where liquid is pumped under pressure directly into the cylinder by a pump driven by an electric motor. (3-30-01)
- g.** Maintained pressure hydraulic dumbwaiter. A direct plunger dumbwaiter where liquid under pressure is available at all times for transfer into the cylinder. (3-30-01)
- h.** Roped Hydraulic Dumbwaiter. A dumbwaiter having its piston connected to the car with wire rope. (3-30-01)
- i.** Under-counter dumbwaiter. A dumbwaiter which has its top terminal landing located underneath a

counter. (3-30-01)

13. Earthquake Protective Devices. A device or group of devices which serve to regulate the operation of an elevator or group of elevators in a predetermined manner during or after an earthquake. (7-1-97)

14. Elevator. A hoisting and lowering mechanism, equipped with a car or platform, which moves in guide rails and serves two (2) or more landings and is classified by the following types: (7-1-97)

a. Freight elevator. An elevator used primarily for carrying freight and on which only the operator and the persons necessary for unloading and loading the freight are permitted to ride. (3-30-01)

b. Gravity elevator. An elevator utilizing gravity to move the car. (3-30-01)

c. Hand elevator. An elevator utilizing manual energy to move the car. (3-30-01)

d. Inclined elevator. An elevator which travels at an angle of inclination of seventy (70) degrees or less from the horizontal. (3-30-01)

e. Multi-deck elevator. An elevator having two (2) or more compartments located one (1) immediately above the other. (3-30-01)

f. Observation elevator. An elevator designed to permit exterior viewing by passengers while the car is traveling. (3-30-01)

g. Passenger elevator. An elevator used primarily to carry persons other than the operator and persons necessary for unloading and loading. (3-30-01)

h. Power elevator. An elevator utilizing energy other than gravity or manual to move the car. (3-30-01)

i. Electric elevator. A power elevator where the energy is applied by means of an electric driving machine. (3-30-01)

j. Hydraulic elevator. A power elevator where the energy is applied by means of a liquid under pressure in a cylinder equipped with a plunger or piston. (3-30-01)

k. Direct plunger hydraulic elevator. A hydraulic elevator having a plunger or cylinder directly attached to the car frame or platform. (3-30-01)

l. Electro-hydraulic elevator. A direct plunger elevator where liquid is pumped under pressure directly into the cylinder by a pump driven by an electric motor. (3-30-01)

m. Limited-use/limited application elevator. A power passenger elevator where the use and application is limited by size, capacity, speed, and rise, intended principally to provide vertical transportation for people with physical disabilities. (3-30-01)

n. Maintained pressure hydraulic elevator. A direct plunger elevator where liquid under pressure is available at all times for transfer into the cylinder. (3-30-01)

o. Personnel hoist. A mechanism and its related hoistway for use in connection with the construction, alteration, on-going maintenance, or demolition of a building, structure, or other work. It is used for hoisting and lowering workers or materials or both, and is equipped with a car that moves vertically on guide members. (3-30-01)

p. Roped hydraulic elevator. A hydraulic elevator having its plunger or piston connected to the car with wire ropes or indirectly coupled to the car by means of wire ropes and sheaves. (3-30-01)

q. Rack and pinion elevator. A power elevator with or without a counterweight which is supported,

raised, and lowered by a motor or motors which drive a pinion or pinions on a stationary rack mounted in the hoistway. (3-30-01)

r. Screw column elevator. A power elevator having an uncounter-weighted car which is supported, raised, and lowered by means of a screw thread. (3-30-01)

s. Private residence elevator. A power passenger elevator which is limited in size, capacity, rise, and speed, and is installed in a single family private residence or in a multiple dwelling as a means of access to an individual private residence. (3-30-01)

t. Rooftop elevator. A power passenger or freight elevator operating between a landing at roof level and one (1) landing below. It opens onto the exterior roof level of the building through a horizontal opening. (3-30-01)

u. Sidewalk elevator. An elevator of the freight type operating between a landing in a sidewalk or other exterior area and the floors below the sidewalk or grade level. It opens onto the exterior area through a horizontal opening. (3-30-01)

v. Special purpose personnel elevator. An elevator which is limited in size, capacity, and speed, and permanently installed in structures such as grain elevators, radio antenna, bridge towers, underground facilities, dams, power plants, and similar structures to provide vertical transportation of authorized personnel and their tools and equipment only. (3-30-01)

w. Construction elevator. An elevator being used temporarily, only for construction purposes. (3-30-01)

15. Enforcing Authority. The Industrial Commission, state of Idaho. (7-1-97)

16. Escalator. A power driven, inclined, continuous stairway used for raising or lowering passengers. (7-1-97)

17. Hoistway Enclosure. The fixed structure, consisting of vertical walls or partitions, which isolates the hoistway from all other areas or from an adjacent hoistway and in which the hoistway doors and door assemblies are installed. (7-1-97)

18. Inspection and Tests. (7-1-97)

a. Acceptance. The initial inspection and tests of new or altered equipment by a Qualified Elevator Inspector to check for compliance with the applicable code requirements. (5-3-03)

b. Periodic. Routine inspection and tests plus additional detailed examination and operation of equipment at specified intervals performed by a Qualified Elevator Inspector to check for compliance with the applicable code requirements. (5-3-03)

c. Routine. The examination and operation of equipment at specified intervals by a competent person to check for compliance with applicable code requirements. (7-1-97)

19. Installation. A complete elevator, dumbwaiter, escalator, lift, inclined lift, or moving walk including its hoistway, hoistway enclosures and related construction, and all machinery and equipment for its operation. (7-1-97)

a. Existing installation. An installation that has been completed or was under construction prior to the effective date of the adoption of the latest applicable ASME standard. (7-1-97)

b. New installation. Any installation not classified as an existing installation by definition, or an existing elevator, dumbwaiter, escalator, lift, inclined lift, or moving walk moved to a new location subsequent to the effective date of the adoption of the latest applicable ASME standard. (7-1-97)

- 20. Installation Placed Out Of Service.** An installation on which the power feed lines have been disconnected from the mainline disconnect switch. (3-30-01)
- a.** An electric elevator, dumbwaiter, or lift on which the suspension ropes have been removed, whose car and counterweights rest at the bottom of the hoistway, and the hoistway doors have been permanently barricaded or sealed in the closed position on the hoistway side. (3-30-01)
- b.** A hydraulic elevator, dumbwaiter, or lift on which the car rests at the bottom of the hoistway; when provided with suspension ropes and counterweights, the suspension ropes have been removed and the counterweights rest at the bottom of the hoistway, and the hoistway doors are permanently barricaded or sealed in the closed position on the hoistway side. (3-30-01)
- c.** An escalator or moving walk on which the entrances have been permanently barricaded. (3-30-01)
- 21. Labeled.** Equipment or materials to which the manufacturer has attached a label, symbol, or other identifying mark of an independent certifying organization with authority to perform product evaluation and to perform periodic inspection of the production of labeled equipment or materials. By affixing the label the manufacturer indicates the equipment or materials comply with appropriate standards or perform in a specified manner. (3-30-01)
- 22. Listed.** Equipment or materials included in a list published by an independent certifying organization with authority to perform product evaluation and to perform periodic inspection of the production of listed equipment or materials. The certifying organization states whether the listed equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner. (3-30-01)
- 23. Main Floor.** The floor providing normal egress from the building. (7-1-97)
- 24. Maintenance.** A process of routine examination, lubrication, cleaning, adjustment, and replacement of parts for the performance in accordance with applicable Code requirements. (7-1-97)
- 25. Material Lift.** A hoisting and lowering mechanism not normally classified as an elevator, equipped with a platform, serving two (2) or more landings for the purpose of transporting materials only (no persons), which may be manually or automatically operated from outside the hoistway. (3-30-01)
- 26. Moving Walk.** A type of passenger-carrying device on which passengers stand or walk, and which the passenger-carrying surface remains parallel to its direction of motion and is uninterrupted. (3-30-01)
- 27. Penetrate A Floor.** To pass through or pierce a floor in such a way that the opening has a continuous perimeter and is provided only to allow equipment to pass through the floor. (7-1-97)
- 28. Phase I Emergency Recall.** The first phase of an emergency during which an elevator is automatically or manually recalled to a specific landing and removed from normal service due to the activation of a fire detection device. (3-30-01)
- 29. Phase II Emergency In-Car Operation.** The operation and control of an elevator by firefighters during an emergency. (3-30-01)
- 30. Pit.** That portion of a hoistway extending from the sill level of the lowest landing to the floor at the bottom of the hoistway. (7-1-97)
- 31. Private Residence.** A separate dwelling or a separate apartment in a multiple dwelling which is occupied only by the members of a single family unit. (7-1-97)
- 32. Qualified Elevator Inspector.** A person certified by an American Society of Mechanical Engineers (ASME) accredited certifying organization as meeting the requirements of ASME QEI-1 standard.

(5-3-03)

33. Repair. The process of rehabilitation or replacement of parts that are basically the same as the original for the purpose of ensuring performance in accordance with the applicable code requirements. (7-1-97)

34. Replacement. The substitution of a device or component in its entirety with a new unit that is basically the same as the original for the purpose of ensuring performance in accordance with the applicable code requirements. (7-1-97)

35. Weather Proof. So constructed or protected that exposure to the weather will not interfere with the successful operation of the equipment. (7-1-97)

011. ABBREVIATIONS.

01. ANSI. American National Standards Institute. (7-1-97)

02. ASME. American Society of Mechanical Engineers. (7-1-97)

03. DBS. Division of Building Safety. (7-1-97)

04. IBC. International Building Code. (5-3-03)

05. IDAPA. Idaho Administrative Procedures Act. (7-1-97)

06. NEC. National Electric Code. (7-1-97)

07. NFPA. National Fire Protection Association. (7-1-97)

08. PSIG. Pounds per Square Inch Gauge. (7-1-97)

09. UL. Underwriters Laboratories. (7-1-97)

012. -- 019. (RESERVED).

020. GENERAL REQUIREMENTS.

01. Compliance With Code And Rules. All new installations, unless otherwise exempted by these rules, to be installed or operated in the state of Idaho shall be designed, constructed, installed, operated, and inspected in accordance with the applicable ANSI/ASME code, the latest addenda, and these rules. (5-3-03)

02. State Registration Number. All installations, unless otherwise exempted by these rules, shall have a state of Idaho registration number permanently affixed to the equipment. (5-3-03)

03. Manual Shutoff Valve. All hydraulic elevators shall have a manual shutoff valve in the supply line to the hydraulic cylinder located in the elevator machine room. (3-30-01)

04. Pressure Gage Installations. All hydraulic elevators shall have a hydraulic nipple type H-1 located between the hydraulic oil pump and the machine room manual shutoff valve to standardize pressure gage installations. (3-30-01)

05. Emergency Unlocking Devices. Hoistway door unlocking provisions and devices shall be provided for use by authorized and emergency personnel for each elevator car at every landing where there is an entrance. (3-30-01)

06. Main Line Disconnect Or Shunt Trip. A fused or circuit breaker elevator main line disconnect shall be located in the appropriate elevator machine room for the elevator being controlled. Where used, shunt trips shall be located in the appropriate elevator machine room for the elevator being controlled. (3-30-01)

07. Emergency Communications. Two-way communication between the elevator car and a twenty-four (24) hour, seven (7) day a week manned location shall be provided for all elevators. (5-3-03)

08. Hydraulic Elevator Cylinders Buried In The Ground. For all hydraulic elevator cylinders buried in the ground a record of hydraulic oil loss shall be kept. Loss of unaccountable hydraulic oil shall result in the replacement of the hydraulic cylinder or placing the elevator out of service. (5-3-03)

021. NOTIFICATION REQUIREMENTS.

01. Prior To Installation, Major Alterations, Or Repairs. Before the installation of any new elevator, dumbwaiter, moving walk, material lift, wheelchair lift, stairway chair-lift, and or escalator, unless otherwise exempted by these rules, or before any major alteration or repairs are made to an existing elevator, dumbwaiter, moving walk, material lift, wheelchair lift, stairway chair-lift, or escalator, unless otherwise exempted by these rules, notice of such installation, major alteration, or repairs must be given in writing to the Idaho Division of Building Safety. Upon receipt of said notification, the Division of Building Safety will provide a state registration number to be permanently affixed to the equipment for which the notice was submitted. (5-3-03)

02. Accidents. When an accident occurs involving an installation, unless otherwise exempted by these rules, the owner, user, or designated representative shall promptly notify the Division of Building Safety and submit a detailed report of the accident. (5-3-03)

022. EXEMPTIONS.

01. Private Residences. Installations in private residences are exempt from these rules. (5-3-03)

02. Federal Government. Installations in buildings or on premises owned by the Federal Government are exempt from these rules. (5-3-03)

023. EMERGENCY EVACUATION OF PASSENGERS FROM ELEVATORS.

01. Guide For Training And Performing Emergency Evacuation. ANSI/ASME A17.4 - 1999, Emergency Evacuation of Passengers from Elevators, shall be used as a guide for conducting training and performing emergency evacuation of passengers from an elevator. (3-15-02)

02. Supervision. Whenever possible the evacuation of passengers from an elevator car shall be conducted under the direct supervision of elevator personnel. (3-30-01)

03. Training Required. Only trained personnel shall attempt emergency evacuation of passengers from an elevator. (3-30-01)

04. Elevator Owner's Responsibility. The owner of an elevator shall ensure that there are properly trained personnel capable of performing emergency evacuation of passengers from an elevator. (3-30-01)

05. Equipment For Rescue Personnel. Rescue personnel shall have the proper tools and equipment ready for use prior to attempting emergency evacuation of passengers from an elevator. (3-30-01)

06. Elevator Door Keys. Specialized elevator door keys shall be used by and available to properly trained personnel. (3-30-01)

024. ELEVATOR MACHINE ROOM/MECHANICAL SPACES.

01. Access. Only elevator personnel and authorized personnel shall have access to the elevator machine room and mechanical spaces. (3-30-01)

02. Storage. No non-elevator related materials shall be stored in elevator machine room and mechanical spaces. (3-30-01)

03. Non-Elevator Utilities. No non-elevator related utilities shall be installed or run through elevator machine room and mechanical spaces. (3-30-01)

025. ELEVATOR PITS/HOISTWAYS.

01. Maintenance. For fire, sanitation and safety concerns, all elevator pits shall be kept free of trash, debris, and water. (3-30-01)

02. Non-Elevator Utilities. No non-elevator related utilities shall be installed or run through an elevator hoistway/pit. (3-30-01)

026. INSPECTIONS.

Elevators installed or operated in the state of Idaho, unless otherwise exempted by these rules, shall have an inspection in accordance with the ANSI/ASME standards incorporated by reference in Subsections 004.01, 004.02, 004.03, and 004.09 of these rules. The following types of inspections are required. (2-6-03)T

01. Acceptance Inspection. An acceptance inspection shall be conducted by a Qualified Elevator Inspector representing the owner for all new or altered elevators, unless otherwise exempted by these rules. In addition, elevators in public schools and in state owned or occupied buildings will have their inspections witnessed by a state inspector from the Division of Building Safety. The changes to Subsection 026.01 shall not apply to new elevator installations that were let for bid before November 1, 2002. (5-3-03)

02. Routine Inspection. A routine inspection shall be conducted annually by a competent person representing the owner for all installations, unless otherwise exempted by these rules, utilizing forms provided by the Division of Building Safety. (5-3-03)

03. Periodic Inspection. Periodic inspections shall be conducted every five (5) years by a Qualified Elevator Inspector contracted by the owner for all elevators, unless otherwise exempted by these rules. In addition, elevators in public schools and in state owned or occupied buildings will have their inspections witnessed by a state inspector from the Division of Building Safety. Any owner whose periodic elevator inspection is required to be completed between November 1, 2002 and July 1, 2004, shall have until July 1, 2004 to complete that inspection. (2-6-03)T

027. CERTIFICATE TO OPERATE ELEVATOR.

An elevator, unless otherwise exempted by these rules, shall not be placed into operation until an inspection has been performed and a Certificate to Operate has been issued by the person making the inspection. (5-3-03)

01. Inspection Prior To Issuance. A Certificate to Operate may be issued only if, after a thorough inspection, the Qualified Elevator Inspector finds that the elevator meets the required safety standards. If the elevator is found to be unsafe, the Qualified Elevator Inspector shall prohibit the use of the elevator until it is made safe. (5-3-03)

02. Term Of Certificate. A Certificate to Operate shall be in effect for five (5) years, provided that the elevator continues to meet the requirements of the appropriate codes. The Certificate to Operate for any elevator whose periodic elevator inspection is required to be completed between November 1, 2002 and July 1, 2004, shall be extended until that inspection is completed or July 1, 2004, whichever occurs first, provided that the elevator continues to meet the requirements of the appropriate codes. (2-6-03)T

03. Revocation Of Certificate. The Certificate to Operate shall remain the property of the state of Idaho and may be revoked at any time if the elevator fails to meet the requirements of the appropriate codes. (3-30-01)

028. TEMPORARY CERTIFICATE TO OPERATE.

A temporary certificate to operate is effective for sixty (60) days and may be issued to allow use of the elevator while non-critical non-conformances are corrected. Before the expiration of sixty (60) days, the elevator shall be reinspected and a permanent Certificate to Operate shall be issued, or the elevator shall be put out of service.(5-3-03)

029. INSPECTION REPORTS.

Inspection reports must be filed with the Division of Building Safety: (5-3-03)

01. Inspection Witnessed By Division. For elevators in public schools or in state owned or occupied buildings whenever an inspection is conducted by a competent person representing the owner and witnessed by a designated representative of the Division of Building Safety, a copy of the inspection report shall be filed with the Division of Building Safety and a copy sent to the owner or the owner's representative for corrective actions as required. (5-3-03)

02. Inspection By Owner's Representative. Whenever an inspection is conducted by a Qualified Elevator Inspector representing the owner, a copy of the inspection report shall be filed with the Division of Building Safety. (5-3-03)

030. REMUNERATION.

Qualified Elevator Inspectors representing the owner or elevator installer, referred to in Sections 026 and 029, shall be considered to be employees of the owner or the owner's representative and shall receive no salary from, nor shall any of their expenses be paid by the state of Idaho. (5-3-03)

031. CONSTRUCTION, REPAIR, ALTERATION, OR DISMANTLING.

01. Training And Experience Requirements. Only persons who are qualified by virtue of training and experience shall construct, repair, alter, or dismantle installations. EXCEPTION: an apprentice while under the direct supervision of a qualified journeyman. (5-3-03)

02. Barricades And Signs. Installations that are under maintenance, repair, inspection, alteration, construction, being dismantled, or are otherwise out of service shall have their points of entry appropriately barricaded and signed. Additionally mechanical rooms/ spaces or controllers shall be appropriately signed. (5-3-03)

03. Safety Devices. (3-30-01)

a. No person shall attempt to remove or do any work on any safety device until the installation is removed from service. (5-3-03)

b. No person shall alter any safety device in any manner to render it ineffective except as part of a required test or during an inspection procedure. (3-30-01)

032. -- 999. (RESERVED).

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