

1 **BY AUTHORITY**

2 ORDINANCE NO.
3 SERIES OF 2013

COUNCIL BILL NO. CB13-0215
COMMITTEE OF REFERENCE:
HEALTH, SAFETY, EDUCATION &
SERVICES

6 **A BILL**

7 **For an ordinance, amending the Building and Fire Code of the City and County of**
8 **Denver**

9 **BE IT ENACTED BY THE COUNCIL OF THE CITY AND COUNTY OF DENVER:**

10 **Section 1.** That section 104.1 of the Denver Amendments to the 2009 International Fire
11 Code (hereinafter "Fire Code") of the City and County of Denver is hereby amended by adding
12 the language underlined below and deleting the language stricken below to read and be read as
13 follows:

14 **104.1 General.** The Fire Prevention and ~~Investigation~~ Division is authorized to inspect land,
15 buildings, structures, utilities, installations, equipment, devices, illegal processes, and materials
16 for fire, explosion, and other emergency hazards, ~~and to investigate and ascertain the causes of~~
17 ~~fires, explosions,~~ releases of hazardous materials, false alarms, any unsafe conditions that relate
18 to the protection of the public and/or property and other emergencies. The Division is also
19 authorized to issue permits, inspect, and enforce compliance regarding elevators and similar
20 devices, escalators, moving walks, automated people movers (APM, also known as AGTS)
21 according to State of Colorado Conveyance Regulations (7 Code of Colorado Regulation 1101-
22 8), the Denver Fire Code and Section 1109.7 and Chapter 30 of the Denver Building Code at a
23 minimum. The Division shall have the authority to investigate fire protection and other life safety
24 systems that are disabled or not functioning. The Division shall also have the authority on behalf
25 of the Department of Safety to control the use, location, and transportation of flammable or
26 combustible liquids or acids (in a chemical or physical state) or hazardous materials; the
27 issuance of permits; the issuance of notices, orders, or Denver County Court summonses for the
28 correction or immediate abatement of hazardous situations; the enforcement of this code and
29 other laws, ordinances, rules, and regulations, which are within the perspective of this Code and
30 standards set forth in Chapter 47.

31 **Section 2.** That section 105.7.29 of the Denver Fire Code is hereby added as follows:

32 **105.7.29 Elevators and regulated conveyances.** Construction and operational permits are
33 required for the installation, alteration, modification, removal, maintenance and testing of all
34 elevators and conveyances within the City and County of Denver. Shop and / or layout drawings

1 shall be submitted for review and approval prior to issuance of permits. Drawings shall comply
2 with ASME A17.1 and DFD policy. Two sets of specifications and accurately-scaled and fully-
3 dimensioned construction plans shall be provided. These plans shall include the applicable code
4 edition which shall conform to the edition of the code currently adopted and shall include
5 specifications of interior cab materials or indication on the plans that interior cab work is to be
6 completed by others. Permits issued shall be displayed in the conveyance control room or
7 control space associated with the permitted conveyance.

8 **Section 3.** That section 114.2.32 of the Fire Code of the City and County of Denver is
9 hereby added to read and be read as follows:

10 **114.2.32 Conveyances.**

11 **Section 4.** That section 114.3 of the Fire Code of the City and County of Denver is
12 hereby added to read and be read as follows:

13 **114.3 Conveyance licensing.** Denver Fire Department licenses shall be required for the
14 installation, alteration, replacement, maintenance, removal, dismantling, or inspection activities
15 of conveyances.

16 **Section 5.** That section 604.2.18.3 of the Fire Code of the City and County of Denver is
17 hereby amended by renumbering the section as 604.2.18.3.1 and adding section 604.2.18.3 as
18 follows:

19 **604.2.18.3 Two or more elevators.** Where two or more elevators are controlled by a common
20 operating system, all elevators shall automatically transfer to standby power within 60 seconds
21 after failure of normal power where the standby power source is of sufficient capacity to operate
22 all elevators at the same time. Where the standby power source is not of sufficient capacity to
23 operate all elevators at the same time, all elevators shall transfer to standby power in sequence,
24 return to the designated landing and disconnect from the standby power source. After all
25 elevators have been returned to the designated level, at least one elevator shall remain operable
26 from the standby power source.

27 **Section 6.** That sections 907.4.3.1, 907.4.3.1.1 and 907.4.3.1.2 of the Fire Code are
28 hereby added to read and be read as follows:

29 **907.4.3.1 Elevator firefighter indicator.** Section 2.27.3.2.6 of ASME A17.1/CSA B44-2007 shall
30 be deleted as a reference.

31 **907.4.3.1.1 New elevators.** When elevator recall is initiated by detection devices located in the
32 elevator lobby, the firefighter indicator shall illuminate steady. Independent of the initiating
33 device, when a detection device located in the elevator hoistway, machine room or other elevator
34 control space activates, the firefighter indicator shall illuminate intermittently (flashing).

1 **907.4.3.1.2 Alterations to existing elevators.** The elevator firefighter indicator shall function
2 according to Section 907.4.3.1.1. This requirement applies when alterations are made to the fire
3 fighters emergency operation or any of the following conditions exist:

- 4 1. Substantial alteration of a conveyance as defined by state regulations Section
5 1-4(11)
- 6 2. An elevator presents a material risk as required by state regulations Section 2-
7 7(1)
- 8 3. The use or occupancy of the building changes
- 9 4. Elevators undergoing controller replacement as part of an alteration, in
10 accordance with IFCA Section 607.1

11 **Section 7.** That Chapter 47 of the Fire Code is hereby amended by adding the language
12 underlined below and deleting the language stricken below to read and be read as follows:

13 NFPA	National Fire Protection Association
14	Battery March Park
15	Quincy, MA 02269
16	NFPA Codes and Standards—2010 3 Edition
17	Volumes 1 through 18
18 NFPA 70	National Electrical Code

19 (as adopted by the State of Colorado)

20 **Addition: Reference the following standards:**

21 ANSI	American National Standards Institute
22	25 W 43 rd St, Fourth Floor
23	New York, NY 13045
24 <u>ANSI A10-4-2007</u>	<u>Safety Requirements for Personnel Hoists and</u>
25	<u>Employee Elevators</u>

26 <u>ASCE</u>	<u>The American Society of Civil Engineers</u>
27	<u>101 Constitution Avenue, NW, Ste. 375 East</u>
28	<u>Washington, DC 20001</u>

29 <u>ASCE 21</u>	<u>Automated People Mover Standards</u>
30 <u>(as adopted by the State of Colorado)</u>	<u>Parts 1 through 4 as amended by ASCE</u>

31 <u>ASME</u>	<u>The American Society of Mechanical Engineers</u>
32	<u>Three Park Avenue</u>
33	<u>New York, NY 10016-5990</u>

1	<u>ASME A17.1</u>	<u>Safety Code for Elevators and Escalators</u>
2	<u>(as adopted by the State of Colorado)</u>	
3	<u>ASME A17.1 - 2010 section 5.2</u>	<u>Safety Code for Elevators and Escalators</u>
4	<u>ASME A17.3</u>	<u>Safety Code for Existing Elevators and Escalators</u>
5	<u>(as adopted by the State of Colorado)</u>	
6	<u>ASME A18.1</u>	<u>Safety Standard for Platform Lifts and Stairway</u>
7	<u>(as adopted by the State of Colorado)</u>	<u>Chair Lifts</u>

8 **Section 8.** That section 3001.1 of the Denver Building Code is amended by deleting the
9 language stricken below and adding the language underlined below to read and be read as
10 follows:

11 **3001.1 Scope.** Requirements for the design, construction, installation, alteration and repair of
12 elevators and conveying systems shall comply with the Fire Code and Section 1109.7 and
13 Chapter 30 of the Denver Building Code.~~The State of Colorado has created regulations to~~
14 ~~establish rules for the design, installation, registration, construction, operation, maintenance, and~~
15 ~~inspection of conveyances, and for the licensing of conveyance mechanics, contractors, and~~
16 ~~inspectors pursuant to the Elevator and Escalator Certification Act, Title 9 Article 5.5 Sections 1~~
17 ~~through 7 of the Colorado Revised Statutes (C.R.S). The Conveyance Regulations apply to all~~
18 ~~conveyances, as defined in § 9-5.5-103 C.R.S, listed below.~~

19 ~~(1) Hoisting and lowering mechanisms equipped with a car or platform that moves between two~~
20 ~~or more landings. Such equipment includes, but is not limited to:~~

- 21 ~~(a) Elevator~~
- 22 ~~(b) Platform lift~~
- 23 ~~(c) Personnel hoist~~
- 24 ~~(d) Stairway chair lift~~
- 25 ~~(e) Dumbwaiter~~

26 ~~(2) Power driven stairways and walkways for carrying persons between landings. Such~~
27 ~~equipment includes, but is not limited to:~~

- 28 ~~(a) Escalator~~
- 29 ~~(b) Moving walk~~

30 ~~(3) Automated People Movers (APM) as defined in ASCE 21.~~

31 ~~A conveyance shall not be erected, constructed, or installed within a building or structure unless~~
32 ~~a notice has been sent to the Director of the State of Colorado Division of Oil and Public Safety~~
33 ~~or the Director's designee. (the "Administrator") and the Administrator has approved the~~
34 ~~construction. The notice shall include the construction plans and shall be sent at least thirty days~~

1 ~~before such construction.~~

2 **Section 9.** That sections 3001.2 and 3001.4 of the Denver Building Code are deleted.

3 **Section 10.** That section 3001.2 of the International Building Code is hereby amended by
4 adding the language underlined below to read and be read as follows:

5 **3001.2 Referenced standards.** Except as otherwise provided for in this code, the design,
6 construction, installation, alteration, repair and maintenance of elevators and conveying systems
7 and their components shall conform to ASME A17.1/CSA B44, ASME A90.1, ASME B20.1, ALI
8 ALCTV, and ASCE24 for construction in flood hazard areas established in Section 1612.3, as
9 adopted by the State of Colorado and Chapter 47 of the fire code.

10 **Exception:** Limited-use/limited-application elevators shall comply with section 5.2 of the
11 2010 edition of ASME A17.1/CSA B44.

12 **Section 11.** That section 3003.1 of the Denver Building Code is hereby deleted.

13 COMMITTEE APPROVAL DATE: _____.

14 MAYOR-COUNCIL DATE: _____.

15 PASSED BY THE COUNCIL _____ 2013.

16 _____ - PRESIDENT

17 APPROVED: _____ - MAYOR _____

18 2013

19 ATTEST: _____ - CLERK AND RECORDER,
20 EX-OFFICIO CLERK OF THE CITY AND
21 COUNTY OF DENVER

22 NOTICE PUBLISHED IN THE DAILY JOURNAL _____ 2013; _____ 2013.

23 PREPARED BY: Kerry A. Buckey, Assistant City Attorney _____ 2013

24 Pursuant to section 13-12, D.R.M.C., this proposed ordinance has been reviewed by the office of
25 the City Attorney. We find no irregularity as to form, and have no legal objection to the proposed
26 ordinance. The proposed ordinance is not submitted to the City Council for approval pursuant to
27 § 3.2.6 of the Charter.

28 Douglas J. Friednash, City Attorney

29 BY: _____, _____ City Attorney