Buildings

Promulgation Details for 1 RCNY 3610-04

This rule became effective on October, 26, 2015.

Since such date, one or more amendments have been made to this rule. Each rule amendment has its own effective date and Statement of Basis and Purpose.

Below you will find one or more rule amendments (the most recent appearing at the top), followed by the original rule.

The effective date of each amendment and the original rule can be found at the top of each "NOTICE OF ADOPTION OF RULE."

This rule has an effective date of 11-07-22

NEW YORK CITY DEPARTMENT OF BUILDINGS

NOTICE OF ADOPTION OF RULE

NOTICE IS HEREBY GIVEN, pursuant to the authority vested in the Commissioner of Buildings by Section 643 of the New York City Charter and in accordance with Section 1043 of the Charter, that the Department of Buildings hereby adopts the amendments to Chapter 3600 of Title 1 of the Rules of the City of New York regarding elevator emergency operation and signaling devices, elevator capacity and loading and the addition of a new rule regarding maintenance and testing of electric elevators. .

This rule was published in the City Record on July 29, 2022, and a public hearing thereon was held on August 30, 2022.

Dated: 9/28/22
New York, New York

Eric A. Ulrich
Commissioner

Statement of Basis and Purpose of Rule

Sections one through three of the rule repeal and replace sections 3610-03 and 3610-05 and repeal section 3610-04 of Title 1 of the Rules of the City of New York (RCNY), because those sections have been superseded by Chapter K1 of Appendix K of the 2022 Building Code and other sections of American Society of Mechanical Engineers ("ASME") standard A17.1-2013, as modified by Chapter K1, need to be amended.

Section four of the rule adds a new section 3610-06 to Title 1 of the RCNY to update the provisions of section 8.6.4.20 of ASME standard A17.1-2013 to address issues with load weighing devices on elevators.

Section five of the rule makes it effective the same day as the 2022 Construction Codes.

The rule:

- repeals and replaces rules relating to emergency operation and signaling devices
- repeals rules relating to multicompartment elevators;
- repeals and replaces rules relating to capacity and loading;
- adds an exception to the section on overload detection and
- adds a new rule regarding rated load performance

The Department of Buildings' authority for this rule is found in sections 643 and 1043 of the New York City Charter and section 28-103.19 of the New York City Administrative Code.

<u>New material is underlined.</u>

[Deleted material is in brackets.]

Asterisks (***) indicate unamended text.

"Shall" and "must" denote mandatory requirements and may be used interchangeably in the rules of this department, unless otherwise specified or unless the context clearly indicates otherwise.

Section 1. Section 3610-03 of Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York, relating to Emergency Operation and Signaling Devices, is REPEALED and a new section 3610-03 is added to read as follows:

§ 3610-03 Emergency operation and signaling devices. Pursuant to Section 28-103.19 of the New York City Administrative Code, Section 2.27 of American Society of Mechanical Engineers A17.1-2013, as modified by Chapter K1 of Appendix K of the New York City Building Code, is hereby amended to read as follows:

SECTION 2.27

EMERGENCY OPERATION AND SIGNALING DEVICES

2.27.3 Firefighters' Emergency Operation: Automatic elevators.

Revise Section 2.27.3.1.6(m) to read as follows:

(m) No device that measures load shall prevent Phase I Emergency Recall Operation of the elevator.

Revise Section 2.27.3.3.1(l) to read as follows:

(l) No device that measures load shall prevent Phase II Emergency In-car Operation of the elevator.

Revise Section 2.27.3.3.7 to read as follows:

2.27.3.3.7 The "FIRE OPERATION" switch (2.27.3.3), the "CALL CANCEL" button (2.27.3.3.1(h)), and the visual signal (2.27.3.1.6(h)), shall be grouped together exposed and accessible, on the cover of the main car operating panel and shall be located more than 1 220 mm (48 in.) and less than 1 830 mm (72 in.) above the floor as measured to the centerline of the "CALL CANCEL" button, "FIRE OPERATION" switch and visual signal.

Delete Figure 2.27.3.3.7.

2.27.4 Firefighters' Emergency Operation: Nonautomatic elevators.

Revise the last sentence of Section 2.27.4.1 Phase I Emergency Recall Operation to read as follows:

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No device, that measures load, shall prevent Firefighters' Emergency Operations for Non-automatic Elevators.

§2. Section 3610-04 of Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York, relating to multicompartment elevators, is REPEALED.

§3. Section 3610-05 of Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York, relating to elevator capacity and loading is REPEALED and a new section 3610-05 is added to read as follows:

§ 3610-05 Capacity and loading.

(a) New and altered elevator devices must comply with the requirements of this rule.

(b) Pursuant to Section 28-103.19 of the New York City Administrative Code, Section 2.16.10 of American Society of Mechanical Engineers A17.1-2013, as modified by Chapter K1 of Appendix K of the New York City Building Code, is amended to read as follows:

SECTION 2.16
CAPACITY AND LOADING

Revise Section 2.16.10 to read as follows:

2.16.10 Detection of Overload on Passenger Elevators and Freight Elevators Permitted by 2.16.4 to Carry Passengers.

Passenger elevators and freight elevators permitted by 2.16.4 to carry passengers must be designed with the means to detect if the load exceeds the rated capacity of the elevator. If an overload is detected, the elevator doors shall reopen and remain open and a voice notification and visual signal must indicate that the car is overloaded.

Exception: If Firefighters' Emergency Operations required in Sections 2.27.3 or 2.27.4 are initiated, the elevator shall operate in accordance with 2.27.3 or 2.27.4.

§4. Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York is amended by adding a new Section 3610-06, to read as follows:

§ 3610-06 Maintenance, repair, replacement and testing. Pursuant to Section 28-103.19 of the New York City Administrative Code, Section 8.6.4.20 of American Society of Mechanical

Engineers A17.1-2013, as modified by Chapter K1 of Appendix K of the New York City Building Code, is amended to read as follows:

SECTION 8.6
MAINTENANCE, REPAIR, REPLACEMENT, AND TESTING

8.6.4 Maintenance and testing of electric elevators.

Add a new Section to 8.6.4.20 Periodic Test Requirements – Category 5

8.6.4.20.12 Rated Load Performance.

In order to successfully complete the periodic tests specified in 8.6.4.20.1 through 8.6.4.20.11, passenger elevators and freight elevators permitted by 2.16.4 to carry passengers shall perform with loads up to 100% of the rated load. When loads exceed 100% of the rated load by not more than 25%, the passenger elevators and freight elevators shall operate in accordance with 2.16.8. The entity performing the Category 5 test must verify compliance with 2.16.10, where required.

§5. This rule takes effect on November 7, 2022.

This rule has an effective date of 10-26-15.

NOTICE OF ADOPTION OF RULE

NOTICE IS HEREBY GIVEN, pursuant to the authority vested in the Commissioner of the Department of Buildings by Section 643 of the New York City Charter and in accordance with Section 1043 of the Charter, that the Department of Buildings hereby adopts new Section 3610-04 of Subchapter K of Chapter 3600 of Title 1 of the Official Compilation of the Rules of the City of New York, regarding multicompartment elevators.

This rule was first published on August 12, 2015 and a public hearing thereon was held on September 11, 2015.

Dated: 9/16/15
New York, New York

Rick D. Chandler, P.E.
Commissioner

Statement of Basis and Purpose of Rule

The rule adds a new section 3610-04 regarding multicompartment elevators to Title 1 of the RCNY. The rule updates the provisions of section 2.27 of American Society of Mechanical Engineers ("ASME") standard A17.1-2000 to conform it to the requirements of ASME A17.1-2013. By requiring additional safety enhancements for multicompartment elevators during fire emergency operations, the updated standard also enhances public safety.

The Department of Buildings' authority for this rule is found in sections 643 and 1043 of the New York City Charter, section 28-103.19 of the New York City Administrative Code and section BC 3001.2 of the New York City Building Code.

New material is underlined.
[Deleted material is in brackets.]

"Shall" and "must" denote mandatory requirements and may be used interchangeably in the rules of this department, unless otherwise specified or unless the context clearly indicates otherwise.

Subchapter K of Chapter 3600 of Title 1 of the Rules of the City of New York is amended by adding a new Section 3610-04, to read as follows:

§ 3610-04 Multicompartment elevators. Pursuant to Section 28-103.19 of the New York City Administrative Code and Section BC 3001.2 of the New York City Building Code, Section 2.27.3.5 of American Society of Mechanical Engineers A17.1-2000, with supplements A17.1a-2002 and A17.1b – 2003, as modified by Chapter K1 of Appendix K of the New York City Building Code, is hereby amended to read as follows:

SECTION 2.27
EMERGENCY OPERATION AND SIGNALING DEVICES

Delete and revise Section 2.27.3.5 to read as follows:

2.27.3.5 Multicompartment Elevators. Multicompartment elevators shall also conform to 2.27.3.5.1 through 2.27.3.5.10 and shall be designed to have a usable hoistway entrance for the lower compartment when the upper compartment is at the designated or alternate level. When the upper compartment has been recalled to the designated or alternate level and Phase I Emergency Recall Operation is in effect, the car and hoistway doors for both compartments shall open.

Delete and revise Section 2.27.3.5.1 to read as follows:

2.27.3.5.1 The "FIRE RECALL" switch (2.27.3.1) shall be located at the designated level served by the upper compartment. Where a sky lobby exists, a "FIRE RECALL" switch shall also be located at the floor served by the upper compartment that is immediately above the sky lobby level. This level above the sky lobby level shall be the sky lobby designated level.

Delete and revise Section 2.27.3.5.2 to read as follows:

2.27.3.5.2 The Phase II Emergency In-Car Operation switch (see 2.27.3.3) shall be located in the upper compartment.

Add new Sections 2.27.3.5.3 through 2.27.3.5.10 to read as follows:

2.27.3.5.3 A visual and audible signal (see 2.27.3.1.6(h)) shall be provided in the main car operating panel of both the upper and lower compartments.

2.27.3.5.4 A minimum 3" diagonal video display shall be installed in the car operating panel of the upper compartment so that the entire floor area in the lower compartment is visible. The display shall show the lower compartment when the upper deck is on Phase I Emergency Recall Operation and is at the designated level with the car doors open and shall remain on during Phase II Emergency In-Car Operation.

2.27.3.5.5 Moving the Phase II Emergency In-Car Operation key switch to the "FIREMAN SERVICE" position shall result in locking out the lower compartment.

(a) When placed in the "FIREMAN SERVICE" position, the control system shall:

(1) disable all door reopening devices in the lower compartment; and

(2) initiate closing of the lower compartment doors in accordance with 2.13.4.2.1(c).

(b) When the upper compartment is stopped at the designated level, the Phase II Emergency In-Car Operation key switch is in the "NORMAL" position and Phase I Emergency Recall Operation is in effect, the lower compartment doors shall be opened.

2.27.3.5.6 Two-way hands-free voice communication shall be established between the upper and lower compartments when the elevator is on Phase I Emergency Recall Operation, the upper compartment is at the designated or alternate level, and the car and hoistway doors are open. Voice communication between the two compartments shall be maintained until such time as the elevator is returned to normal service.

2.27.3.5.7 A switch labeled "LOWER COMPARTMENT RECOVERY" with two positions marked "OFF" and "ON" shall be located adjacent to the elevator at the designated level. The key shall only be removable when the switch is in the "OFF" position.

(a) When the switch is in the "ON" position, the doors of the upper and lower compartments shall close in accordance with 2.13.4.2.1(c), and the lower compartment shall move to the designated level.

(b) When the lower compartment arrives at the designated level, the doors of the lower compartment shall open and remain open until the switch is turned to the "OFF" position. The doors of the upper compartment shall remain closed.

(c) When the switch is turned to the "OFF" position, the doors of the lower compartment shall close and the upper compartment shall arrive at the designated level and open the doors.

(1) The doors of the upper compartment shall remain open until:

(i) the elevator is placed on Phase II Emergency In-Car Operation; or

(ii) the elevator is returned to normal operation.

(2) The doors of the lower compartment shall remain closed until such time as:

(i) the elevator is returned to normal operation;

(ii) the "LOWER COMPARTMENT RECOVERY" switch is operated and the lower compartment has returned to the designated level; or

(iii) the elevator is on "FIREMAN SERVICE" Phase I Emergency Recall Operation.

2.27.3.5.8 Activation of a fire alarm initiating device at either the designated level or the level below the designated level shall cause the elevator(s) to travel to the alternate level.

2.27.3.5.9 Activation of a fire alarm initiating device at the sky lobby or the level above the sky lobby (which is the sky lobby designated level) shall cause the elevator(s) to travel to the sky lobby alternate level.

2.27.3.5.10 Alternate levels shall be located in accordance with the following provisions:

(a) Where no blind hoistway exists, the alternate level shall be three (3) levels above the designated level.

(b) Where blind hoistways exist, the alternate level shall be the second level above the blind hoistway.

(c) The sky lobby alternate level shall be three (3) levels above the sky lobby designated level.