

524: BOARD OF ELEVATOR REGULATIONS

524 CMR 10.00: REQUIREMENTS FOR PERMITS AND INSPECTIONS OF EXISTING ELEVATORS UNDERGOING ALTERATIONS AND REPLACEMENTS

Section

10.01: General

10.02: Alterations and Replacements Requiring a Permit

10.03: Alterations and Replacements Requiring a Permit and Test

10.04: Alterations and Replacements Requiring a Permit, Test, and Upgrade of Components

10.01: General

(1) 524 CMR 10.00 describes those activities for which an elevator permit is required, those activities for which a permit and follow-on testing are required, and for which a permit, testing, and an upgrade of unrelated components to the current edition of 524 CMR are required. For permit and permit inspection purposes, 524 CMR 10.00 replaces the applicable portions of ASME A17.1-2013/CSA B44-13: *Safety Code for Elevators and Escalators*, Parts 8.6, 8.7, 8.8, and 8.10.

(2) Pursuant to M.G.L. c. 143, §§ 71B through 71D, no person shall perform construction, maintenance, repair, alteration, or replacement on an elevator unless he or she holds a license therefor granted by the Board.

(3) Any alteration listed in 524 CMR 10.02 through 10.04 shall conform to the requirements of ASME A17.1-2013/CSA B44-13: *Safety Code for Elevators and Escalators*, Part 8.7 as modified by 524 CMR, and be inspected pursuant to the version of 524 CMR in effect at the time the permit for said alteration was filed.

(4) Replacements of elevator parts or components as part of routine maintenance and general repair as described in ASME A17.1-2013/CSA B44-13: *Safety Code for Elevators and Escalators*, Part 8.6 as modified by 524 CMR with identical older, discontinued, or refurbished parts or components still suitable for use is expressly allowed and, where installed by a licensed elevator mechanic, shall be permitted and inspected under the version of 524 CMR in effect at the time that the original part or component was installed.

10.02: Alterations and Replacements Requiring a Permit

(1) Alterations of or to any of the following elevator systems, parts or components thereof governed by 524 CMR, shall require a permit:

- (a) hoistway door locking devices;
- (b) car door or gate locking devices;
- (c) rope equalizers;
- (d) rope fastening devices;
- (e) hoistway door operating devices;
- (f) roller guide shoes;
- (g) car enclosures;
- (h) car floors and coverings;
- (i) interior panels;
- (j) escalator deck barricades; and
- (k) hoistway and machinery space ventilation.

(2) Replacements of any of the following elevator systems, parts or components thereof governed by 524 CMR, shall require a permit:

- (a) car fixtures;
- (b) hall fixtures;
- (c) hoistway door(s);
- (d) car door(s);
- (e) more than three consecutive damaged steps;
- (f) ropes;
- (g) step or drive chains; and
- (h) guide rails.

524: BOARD OF ELEVATOR REGULATIONS

10.03: Alterations and Replacements Requiring a Permit and Test

(1) Alterations of or to any of the following elevator systems, parts or components thereof governed by 524 CMR, shall require a permit and an acceptance test witnessed by a state elevator inspector:

- (a) increase in dead weight of car;
- (b) fire fighter emergency operations controls;
- (c) hoistway access switches;
- (d) car top operating devices;
- (e) truck zoning devices;
- (f) change in type of operation or control;
- (g) change in type of car;
- (h) change in type of counterweight safety;
- (i) increase in dead weight of counterweight; and
- (j) car door operating devices.

Note: alterations listed in 524 CMR 10.03(b), (c), (d), and (j) shall not require a contract load test at governing tripping speed.

(2) Replacements of any of the following elevator systems, parts or components thereof governed by 524 CMR, shall require a permit and an acceptance test witnessed by a state elevator inspector:

- (a) car or counterweight safeties;
- (b) driving machine with a new machine;
- (c) controller with a new controller;
- (d) brake assembly;
- (e) brake shoes;
- (f) hydraulic control valves;
- (g) overspeed valves;
- (h) hydraulic plungers;
- (i) hydraulic cylinders;
- (j) hydraulic supply lines;
- (k) complete jack units;
- (l) decrease in operating speed; and
- (m) decrease in operating capacity.

(3) In addition to 524 CMR 10.02 and 524 CMR 10.03(1) and (2), once alterations or replacements are made to the controller, door operating equipment, and signal fixtures, a full upgrade of all elevator equipment to the version of 524 for new installations in effect at the time of the last such alteration or replacement is required. The requirement to fully upgrade all elevator equipment is triggered by the last such alteration or replacement, regardless of whether it is to the controller, door operating equipment or signal fixtures, and regardless of when the other alterations or replacements were made.

10.04: Alterations and Replacements Requiring Plans, Permit, Test, and Complete Installation Upgrade

(1) Any one of the following alterations to an elevator system governed by 524 CMR shall require that the complete installation comply with the version of 524 CMR for new installations in effect at the time the permit is filed. The complete installation incorporates all elevator related systems including, but not limited to, ventilation, electrical supply, hoistway structures, machine rooms, machine room access, lighting and fire alarm systems.

- (a) The speed of the elevator is increased;
- (b) The capacity of the elevator is increased;
- (c) The travel of an existing elevator is extended;
- (d) The machine room of an existing elevator is relocated;
- (e) The classification of an elevator is changed from freight to passenger; and
- (f) The loading classification of an existing freight elevator is changed.

524: BOARD OF ELEVATOR REGULATIONS

10.04: continued

(2) In addition to the required permit, full plans as required in 524 CMR 35.00: *Safety Code for Elevators and Escalators and A17.1-2013 and the Massachusetts Modifications of That Code*, Parts 2.28 and 3.28 whichever section is applicable, shall be submitted and approved by the Office prior to the commencement of any work.

REGULATORY AUTHORITY

524 CMR 10.00: M.G.L. c. 143, §§ 62 through 71G.