

~~installed per NFPA 13, 9.3.6, the provisions of Section 903.3.9.1.1 or 903.3.9.1.2 shall apply.~~ Installation of automatic sprinklers shall comply with Section 903.3.9.

~~**903.3.9.1.1 Hydraulic Elevator.** Protection of the elevator hoistway and machine room shall be provided as follows:~~

- ~~1. Smoke detectors shall be installed at all elevator lobbies and in the machine room(s) to provide recall.~~
- ~~2. Fire sprinklers (286F) and heat detectors (200 F) shall be installed within the elevator pit, within 2 feet (610 mm) of the floor. Heat detector activation shall cause the hat indicator in the car to flash and initiate the required recall prior to operation of the sprinkler. Activation of a machine room smoke detector shall also cause the hat indicator within the car to flash.~~
- ~~3. In cars not equipped with a flashing hat indicator, signage shall be provided in accordance with Section ~~604.3.1~~ ~~607.3.1~~. Activation of the heat detector within the elevator pit shall initiate recall.~~
- ~~4. Where an existing hoistway is equipped with a vent, the smoke detector at the top of the hoistway shall be maintained for vent operation. Activation of this smoke detector shall also initiate recall and cause the hat indicator in the car (where provided), to flash.~~

~~**903.3.9.1.2 Traction Elevators.** Protection of the elevator hoistway and machine room shall be provided as follows:~~

- ~~1. Smoke detectors shall be installed at all elevator lobbies and in the machine room(s) to provide recall.~~
- ~~2. A 135-degree Fahrenheit heat detector shall be installed at the top of the hoistway to provide recall and cause the hat indicator in the car to flash.~~
- ~~3. In cars not equipped with a flashing hat indicator, signage shall be provided in accordance with Section ~~604.3.1~~ ~~607.3.1~~. Installation of the heat detector at the top of hoistway is not required.~~
- ~~4. Where an existing hoistway is equipped with a vent, the smoke detector at the top of the hoistway shall be maintained for vent operation. Activation of this smoke detector shall also initiate recall and cause the hat indicator in the car (where provided), to flash.~~

Section 907.3.3 Elevator emergency operation is replaced as follows:

907.3.3 Elevator emergency operation. Automatic fire detectors installed for elevator emergency operation shall be installed in accordance with this Section, ASME A17.1 and NFPA 72. ~~Where required, Fixed-temperature, 190-to-200-degree F heat detection and smoke detectors shall be provided for shunt trip and recall operation, respectively, where those functions are required. Fixed-temperature, 135-degree F heat detection shall be installed at the top of elevator hoistways for recall operation where shunt trip is not required and where elevator machinery is installed in a non-sprinklered hoistway, where sprinklers are not provided in elevator hoistways in accordance with NFPA 13, 9.3.6, 135-degree F heat detectors shall be installed at the top of the hoistway for recall operation. Where elevator machinery is installed in a non-sprinklered hoistway, 135-degree F heat detectors shall be installed at the top of the hoistway for recall operation.~~ Smoke detectors shall be installed in all machine rooms, control rooms and machine and control spaces. Where environmental or other conditions prohibit installation of smoke detectors for recall, ~~135-degree F fixed-temperature, 135-degree F~~ 135-degree F heat detectors shall be permitted to substitute for the required recall smoke detectors. ~~In buildings with a fire alarm system, these Detectors shall be connected to the building fire alarm system, where provided.~~

Exceptions:

- ~~1. For existing buildings undergoing an elevator alteration, replacement or new installation, an administrative modification shall be submitted for approval where an existing complying fire alarm control unit cannot be expanded within its listing to accommodate required devices for recall and shunt trip, identifying the alternative means and methods that will be provided. Upon approval by the fire code official, a temporary “elevator recall and supervisory panel” shall be installed in accordance with the provisions of the administrative modification. This panel shall report alarm and supervisory signals to the main FACP. The duration of a temporary elevator recall control and supervisory control unit installation shall not exceed 36 months from the date the temporary control unit permit is issued. Building plans shall be permanently mounted adjacent to the panel in accordance with Section per 907.6.4.1.1.1.~~
2. For existing buildings undergoing an elevator alteration, replacement or new installation, and not equipped with a required fire alarm system, a dedicated “elevator recall control and supervisory control unit” shall be

provided. This panel shall be located in accordance with Section 907.1.5. Building plans shall be permanently mounted adjacent to the panel in accordance with ~~per~~ Section 907.6.4.1.1.1

3. Where linear heat detection is installed, 155-degree F detection shall be permitted for recall operation.

Section 907.3.3.2 Shunt trip ~~Where sprinklers are provided in elevator shafts and machine rooms, spaces or control rooms or spaces is added as follows:~~

907.3.3.2 Shunt trip. Where sprinklers are provided in elevator shafts and machine rooms, spaces, or control rooms or spaces, elevator power shunt trip shall be activated prior to sprinkler operation in accordance with NFPA 72. Shunt trip is not required for sprinklers installed within 2 ft (610 mm) of the floor of the elevator pit.

Section 907.3.3.5.2 Alterations to existing elevators is added as follows:

907.3.3.5.2 Alterations to existing elevators. Where an existing elevator is modified under any alteration encompassing a scope of work described under 7CCR 1101-8, the elevator visual signal (flashing firefighter hat) firefighter indicator shall function in accordance with Section 907.3.3.5.1. This requirement applies when any alterations are made to the firefighter's emergency operation. In cars not equipped with an elevator visual signal, signage shall be provided in accordance with Section 604.3.1. Protection of elevator lobbies, hoistway and machine room shall be provided per Section 907.3.3.5.2.1 or 907.3.3.5.2.2.

907.3.3.5.2.1 Hydraulic Elevator. Detection shall be provided as follows:

1. Smoke detectors shall be installed at all elevator lobbies and in the machine room(s) to provide recall.
2. Where sprinklers are installed in the hoistway, a fixed-temperature, 190-to-200-degree F heat detection shall be installed within 2 feet (610 mm), and at the same elevation, of each sprinkler. Activation of such heat detection, or of a smoke detector in the machine room, shall cause the elevator visual signal, where provided, to flash and shall initiate the required recall prior to operation of the sprinkler.
3. Where an existing hoistway is equipped with a vent, the smoke detector at the top of the hoistway shall be maintained for vent operation. Activation of this smoke detector shall also initiate recall and cause the elevator visual signal, where provided, to flash.

907.3.3.5.2.1 Traction Elevators. Detection shall be provided as follows:

1. Smoke detectors shall be installed at all elevator lobbies and in the machine room(s) to provide recall.
2. For elevators provided with an elevator visual signal, fixed-temperature, 135-degree F heat detection shall be installed at the top of the hoistway to provide recall and cause the elevator visual signal in the car to flash.

Exception: Where linear heat detection is installed, 155-degree F detection shall be permitted for recall operation.

3. Where an existing hoistway is equipped with a vent, the smoke detector at the top of the hoistway shall be maintained for vent operation. Activation of this smoke detector shall also initiate recall and cause the elevator visual signal, where provided, to flash.

Supporting Information (Required):

All proposals must include a written explanation and justification as to how they address physical, environmental, and/or customary characteristics that are specific to the City and County of Denver. The following questions must be answered for a proposal to be considered.

- Purpose: What does your proposal achieve?

This proposal rearranges current requirements for sprinklers and detection within elevator shafts to be collected in the correct sections, and to align with NFPA 72 and NFPA 13.

- Reason: Why is your proposal necessary?

Currently, DFC section 903.3.3 contains information about detection. That information belongs under section 907. Requirements for sprinklers and detection in hoistways has been simplified, as well, to clarify when and where sprinklers and/or detectors are to be installed.

- Substantiation: Why is your proposal valid? (i.e. technical justification)

There is no construction or design impact, as these elements are already required by the current code; the language has been clarified.

There is no additional restrictiveness to the proposal.

Bibliography and Access to Materials (as needed when substantiating material is associated with the amendment proposal):

Other Regulations Proposed to be Affected

***For proposals to delete content from the 2019 Denver Green Code in conjunction with adding it to other mandatory Denver codes and/or regulations, only.**

Please identify which other mandatory codes or regulations are suggested to be updated (if any) to accept relocated content.

Referenced Standards:

List any new referenced standards that are proposed to be referenced in the code.

Impact:

How will this proposal impact cost and restrictiveness of code? ("X" answer for each item below)

Cost of construction: ___ Increase ___ Decrease X No Impact
Cost of design: ___ Increase ___ Decrease X No Impact
Restrictiveness: ___ Increase ___ Decrease X No Impact

Departmental Impact (City use only):

This amendment proposal increases/decreases/is neutral to the cost of plans review.

This amendment increases/decreases/is neutral to the cost of inspections.