

DOCKETED

Docket Number:	25-BSTD-03
Project Title:	2028 Energy Code Pre-Rulemaking.
TN #:	270965
Document Title:	National Elevator Industry, Inc. Comments - Elevators - 15-minute shut-off adjustment
Description:	N/A
Filer:	System
Organization:	National Elevator Industry, Inc.
Submitter Role:	Public
Submission Date:	6/24/2026 11:00:24 AM
Docketed Date:	6/24/2026

Comment Received From: National Elevator Industry, Inc.
Submitted On: 6/24/2026
Docket Number: 25-BSTD-03

Elevators - 15-minute shut-off adjustment

Additional submitted attachment is included below.

2025 California Energy Code, Title 24, Part 6

Subchapter 3 Nonresidential Hotel/Motel Occupancies, and Covered Process Mandatory Requirements.

Section 120.6 – Mandatory Requirements for Covered Processes

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(f) Mandatory Requirements for Elevators

Elevators shall meet the following requirements:

1. The light power density for the luminaires inside the elevator cab greater than 0.6 watts per square foot.

Exception to Section 120.6(f)1: Interior signal lighting and interior display lighting are not included in the calculation of lighting power density.

2. Elevator cab ventilation fans for cabs without space conditioning shall not exceed 0.33 watts per cfm as measured at maximum speed.
3. When the elevator cab is stopped ~~and unoccupied~~ with doors closed and no demand for service for over 15 minutes, the elevator car lighting shall be automatically turned off in accordance with ASME A17.1/CSA B44, Section 2.14 or the Elevator Safety Orders ~~cab interior lighting and ventilation fans shall be switched off until elevator cab operation resumes.~~ When the elevator car is stopped with the doors closed and no demand for service for over 15 minutes, cab ventilation fans for elevators without air conditioning or air purification systems shall be turned off.

Exception: For observation and parking garage elevators exposed to the elements, forced ventilation shall not be turned off (see ASME A17.1/CSA B44 Section 2.14).

Reason: To improve energy efficiency and align with the requirements in ASHRAE 90.1-2022. To provide a simpler way to determine when lighting and ventilation should be turned off.

4. Lighting and ventilation shall remain operational in the event that the elevator cabin gets stuck when passengers are in the cabin.
5. ~~Elevator Lighting and Ventilation Control Acceptance. Before an occupancy permit is granted for elevators subject to 120.6(f), the following equipment and systems shall be certified as meeting the Acceptance~~

~~Requirement for Code Compliance, as specified by the Reference Nonresidential Appendix NA7. A Certificate of Acceptance shall be submitted to the enforcement agency that certifies that the equipment and systems meet the acceptance requirements specified in NA7.14.~~

~~**Exception to Section 120.6(f): Elevators located in healthcare facilities.**~~

DELETE THE FOLLOWING APPENDIX:

The screenshot shows a web browser displaying the '2016 Building Energy Efficiency Standards - Reference Ace v31' website. The left sidebar lists various appendices, with 'NA7.14 Elevator Lighting and Ventilation Controls' selected. The main content area is titled 'NA7.14 Elevator Lighting and Ventilation Controls' and contains two sections: 'NA7.14.1 Construction Inspection' and 'NA7.14.2 Functional Testing'. The 'NA7.14.1 Construction Inspection' section lists four items (a) through (d) that must be verified and documented prior to functional testing. The 'NA7.14.2 Functional Testing' section lists two items (a) and (b) that must be confirmed for each elevator cab being tested. Item (a) is highlighted with a red box.

NA7.14 Elevator Lighting and Ventilation Controls

NA7.14.1 Construction Inspection

Verify and document the following prior to functional testing:

- (a) Occupancy sensor has been located to minimize false signals.
- (b) PIR sensor pattern does not enter into the elevator lobby.
- (c) Occupancy sensors do not encounter any obstructions that could adversely affect desired performance.
- (d) Ultrasonic occupancy sensors do not emit audible sound.

NA7.14.2 Functional Testing

For each elevator cab being tested, confirm the following:

- (a) Verify that the lighting and ventilation controlled inside the elevator cab turn off after 15 minutes from the start of an unoccupied condition.
- (b) Verify that the signal sensitivity is adequate to achieve desired control. The sensor should not detect motion in the elevator lobby.
- (c) Verify that lighting and ventilation immediately turn "on" when an unoccupied condition becomes occupied.
- (d) Verify that the lighting and ventilation will not shut off when occupied. Stand in the elevator with the door closed and wait 15 minutes to confirm that the lighting and ventilation remain on.

Reason: To improve energy efficiency and align with the requirements in ASHRAE 90.1-2022. To provide a simpler way to determine when lighting and ventilation should be turned off. The requirements for when to turn off the lights are already covered in 120.6(f)(3). The proposed requirements make it very simple to test the system. If no demand is placed on the system the lights and ventilation must turn off in 15 minutes or less. There is no need for a certification process and there is no need to check to see if the cab is occupied. If someone is in the cab they will either place demand on the elevator or exit unless they are trapped in which case demand is still present and the lighting and ventilation are addressed by 120.6(f)(4). Lack of demand is a simpler and more reliable way to turn off the lights and ventilation and save energy.