



# 2016 Nonresidential Reference Appendices

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## Changes to Section NA7.4.3.2

- Removed references to the FC 1 form as a source for U-Factor, Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT).



## Changes to Section NA7.5

- NA7.5.4 – Air Economizer
  - Construction Inspection was edited to align with the changes in §140.4(e)
    - Inlet/Return dampers can modulate to full open/close
    - Manufacturer certification of damper leakage to the Energy Commission
- NA7.5.11 – Fault Detection and Diagnostics
  - Construction Inspection and Functional Test were edited to align with the changes to §120.2(i)
    - Removed verification of refrigerant pressure sensor accuracy
    - Removed functional testing of pressure sensor



## New Sections NA7.14

- Elevator Lighting and Ventilation Controls
  - Construction Inspection
    - Occupant sensor location to minimize false signals
    - Sensor does not emit an audible sound
  - Functional Testing
    - Sensor correctly shuts off the cab lighting and ventilation fan after 15 minutes of being unoccupied.
    - Sensor does not shut off the cab lighting and ventilation fan during an elevator failure while occupied.



## New Sections NA7.15

- Escalator and Moving Walkway Speed Control
  - Construction Inspection
    - Variable speed drive has been installed
    - Occupant sensor location to minimize false signals such as pedestrians on adjacent escalators or facing an obstruction
    - Sensor does not emit an audible sound
  - Functional Testing
    - Escalator slows to minimum speed when unoccupied for more than three intervals of the measure one-way ride time.
    - Minimum speed  $> 10$  ft/min and max speed is  $< 100$  ft/min
    - Escalator accelerates to full speed before pedestrians boards
    - Audible alarm if pedestrian approaches from wrong direction



## Changes to Section NA7.7

- New Section NA7.7.6.2 - Lighting Control Installation Requirement for Institutional Tuning
  - Construction Inspection
    - Verify the maximum light output of the lighting system can be limited and the normal control operation does not override the maximum light output.
  - Functional Testing
    - Observe the lighting system during tuning or verify lighting systems already tuned. The system passes the test, if it meets the criteria.

**85% of full light output  $\geq$  Light output with institutional tuning**



## Changes to Section NA7.8

- Revision to NA7.8 – Outdoor Lighting Control Acceptance Tests
  - Revised existing subsections and added new subsections in order to align the acceptance test with the outdoor lighting control requirement of Section 130.2.
  - Construction inspection and functional testing of the following outdoor lighting control are added:
    - Photocontrol
    - Astronomical Time-Switch Control
    - Part-Night Outdoor Lighting Control
    - Automatic Scheduling Control