



2016 Nonresidential Reference Appendices

California Energy Commission

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Building Standards Development Office
Efficiency

Efficiency Lead Commissioner Hearing
Art Rosenfeld Room
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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