

**DOCKETED**

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# Building Inspector's Field Sheet

## Acceptance Testing

### California Energy Commission

All acceptance tests required for a nonresidential or multifamily construction project are indicated on the Nonresidential Certificates of Compliance (NRCCs) or the Low-rise Multifamily Certificates of Compliance (LMCCs). All NRCCs and LMCCs are submitted with the application for a construction permit and must be approved by the enforcement agency.

The required acceptance tests for Lighting Controls and Mechanical Systems are shown in the NRCCs and LMCCs for prescriptive and performance pathways as follows:

Building Type	Indoor Lighting	Outdoor Lighting	Mechanical
Nonresidential Hotels and Motels	NRCC-LTI-E, Table V (conditioned and unconditioned spaces) and NRCC-PRF-E, Table M (conditioned spaces)	NRCC-LTO-E, Table P	NRCC-MCH-E, Table O and NRCC-PRF-E, Table M
Multifamily Buildings with $\geq 4$ Habitable Stories			
Multifamily Buildings with $\leq 3$ Habitable Stories	LMCC-LTI-01-E, Table V	LMCC-LTO-01-E, Table P	LMCC-MCH-01-E, Table O

Acceptance tests for Lighting Controls and Mechanical Systems must be performed by a certified Acceptance Test Technician, who must submit the completed Nonresidential Certificate of Acceptance (NRCA) with a logo. One of the following logos must appear as shown below on the Nonresidential Certificate of Acceptance for Lighting Controls (NRCA-LTIs, NRCA-LTOs) and Mechanical Systems (NRCA-MCHs) for it to be valid.

Note: NRCAs apply to both nonresidential and multifamily buildings.

## Lighting Controls



## Mechanical Systems



If the NRCC or LMCC is not available, use the table below to identify when acceptance testing is required for newly installed Lighting Controls or Mechanical systems. Systems serving healthcare facilities are exempt from acceptance testing. See Energy Code, Part 6, Section 100.0- for additional exceptions. The regulations require acceptance testing for any new or replacement space conditioning components or lighting controls serving nonresidential, hotel/motel buildings, or multifamily common areas.

<b>Lighting Controls</b>	<b>Mechanical Systems (HVAC)</b>
<p><b>All newly constructed nonresidential, multifamily, and hotel/motel buildings and additions</b> with newly installed indoor and/or outdoor lighting and controls will require acceptance testing. If controlled receptacles are installed on a project requiring Demand Responsive Controls, these receptacles shall also undergo acceptance testing.</p>	<p><b>All newly constructed nonresidential, multifamily, and hotel/motel buildings and additions</b> served by at least one HVAC system (newly installed or replacement of an existing system) will require at least one of the mechanical acceptance tests.  <b>Exception:</b> Any existing and unaltered HVAC or water heating system serving a new addition.</p>
<p><b>Alterations: Indoor</b>            Lighting controls acceptance testing will be required for the following:</p> <ol style="list-style-type: none"> <li>1. Spaces where lighting systems are installed for the first time.</li> <li>2. When 10% or more of the luminaires serving a space are altered or added.</li> </ol> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. New lighting controls added to control 20 or fewer luminaires.</li> <li>2. Any alteration limited to adding lighting controls, or replacing lamps, ballasts, or drivers.</li> <li>3. One-for-one luminaire alterations of up to 50 luminaires either per complete floor or tenant space per annum.</li> </ol> <p><b>Alterations: Outdoor</b>            Alterations to existing outdoor lighting systems that are included in the lighting applications listed in Table 140.7-A and Table 140.7-B or in Table 170.2-R and Table 170.2-S.</p> <p><b>Exception:</b>            New lighting controls added to control 20 or fewer luminaires.</p>	<p><b>Alterations:</b>            All HVAC replacements, even when considered "like-for-like", require acceptance testing.</p> <p>In addition, multifamily dwelling units will require field verification and diagnostic testing.</p> <p><b>Exceptions:</b>            Does not apply to replacements of the following if they are equivalent or lower capacity:</p> <ol style="list-style-type: none"> <li>1. Electric resistance space heaters for high-rise residential apartment units.</li> <li>2. Electric resistance space heaters when fossil gas is not available.</li> </ol>