California Energy Commission
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SECTION 130.4 –LIGHTING CONTROL ACCEPTANCE AND INSTALLATION CERTIFICATE REQUIREMENTS

Nonresidential, high-rise residential and hotel/motel buildings shall comply with the applicable requirements of Sections 130.4(a) through 130.4(c).

(a) **Lighting Control Acceptance Requirements.** Before an occupancy permit is granted ~~for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use~~, indoor and outdoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). A Certificate of Acceptance shall be submitted to the enforcement agency under Section 10-103(a) of Part 1, that:

1. Certifies that all of the lighting acceptance testing necessary to meet the requirements of Part 6 is completed; ~~are included on the plans and specifications; plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Part 6.~~
2. ~~Completes~~ Certifies that the applicable procedures in Reference Nonresidential Appendix NA7.6~~,~~ ~~NA7.7,~~and NA7.8~~, and NA7.9~~ have been followed; ~~and submits all applicable compliance forms.~~
3. Certifies that automatic daylight controls comply with Section 130.1(d) and Reference Nonresidential Appendix NA7.6.1;
4. Certifies that lighting shut-OFF controls comply with Section 130.1(c) and Reference Nonresidential Appendix NA7.6.2;
5. Certifies that demand responsive controls comply with Section 130.1(e) and Reference Nonresidential Appendix NA7.6.3; and
6. Certifies that outdoor lighting controls comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8; and~~.~~
7. Certifies that lighting systems receiving the Institutional Tuning Power Adjustment Factor~~.~~ comply with Section 140.6(a)2J and Reference Nonresidential Appendix NA7.7.6.2.
8. Recommend acceptance testing of each PAF in TABLE 140.6A

(b) **Lighting Control Installation Certificate Requirements.** To be recognized for compliance with Part 6 an Installation Certificate shall be submitted in accordance with Section 10-103(a) for any lighting control system, Energy Management Control System, track lighting integral current limiter, track lighting supplementary overcurrent protection panel, interlocked lighting system, lighting Power Adjustment Factor, or additional wattage available for a videoconference studio, in accordance with the following requirements, as applicable:

move to 130.4(a)

1. Certification that when a lighting control system is installed to comply with lighting control requirements in Part 6 it complies with the applicable requirements of Section 110.9; and complies with Reference Nonresidential Appendix NA7.7.1.
2. Certification that when an Energy Management Control System is installed to function as a lighting control required by Part 6 it functionally meets all applicable requirements for each application for which it is installed, in accordance with Sections 110.9, 130.0 through 130.5, 140.6 through 150.0, and 150.2; and complies with Reference Nonresidential Appendix NA7.7.2.
3. Certification that line-voltage track lighting integral current limiters comply with the applicable requirements of Section 110.9 and installed wattage has been determined in accordance with Section 130.0(c); and comply with Reference Nonresidential Appendix NA7.7.3.
4. Certification that line-voltage track lighting supplementary overcurrent protection panels comply with the applicable requirements of Section 110.9 and installed wattage has been determined in accordance with Section 130.0(c); and comply with Reference Nonresidential Appendix NA7.7.4.
5. Certification that interlocked lighting systems used to serve an approved area comply with Section 140.6(a)1; and comply with Reference Nonresidential Appendix NA7.7.5.

The PAF sequence of operation should be tested by a CLCATT and not by the Installer.

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6. Certification that lighting controls installed to earn a lighting Power Adjustment Factor (PAF) comply with Section 140.6(a)2; and comply with Reference Nonresidential Appendix NA7.7.6.

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7. Certification that additional lighting wattage installed for a videoconference studio complies with Section 140.6(c)2Gvii; and complies with Reference Nonresidential Appendix NA7.7.7.

(c) When certification is required by Title 24, Part 1, Section 10-103~~-A~~.1, the acceptance testing specified by Section 130.4 shall be performed by a Certified Lighting Controls Acceptance Test Technician (CLCATT). If the CLCATT is operating as an employee, the CLCATT shall be employed by a Certified Lighting Controls Acceptance Test Employer. The CLCATT shall disclose on the Certificate of Acceptance a valid CLCATT certification identification number issued by an approved Acceptance Test Technician Certification Provider. The CLCATT shall complete all Certificate of Acceptance documentation in accordance with the applicable requirements in Section 10-103(a)4.

NOTE: Authority: Sections 25402, 25402.1, 25213, Public Resources Code. Reference: Sections 25007, 25402(a)-(b), 25402.1, 25402.4, 25402.5, 25402.8 and 25910, Public Resources Code.

SECTION 130.5 –ELECTRICAL POWER DISTRIBUTION SYSTEMS

Nonresidential, high-rise residential and hotel/motel buildings shall comply with the applicable requirements of Sections 130.5(a) through 130.5(~~c~~d).

Clarify "or"

Define "feeder".

~~-~~(a) ~~**Service**~~ Service **Electrical Metering.** Each electrical service or feeder shall have a permanently installed ~~user accessible~~ metering system which measures ~~of total~~ electrical energy use ~~per~~in accordance with TABLE 130.5-A. The Table 130.5 A is only for Services.

~~1. The electrical usage shall be recorded a minimum of every 15 minutes and reported at least hourly, daily, monthly, and annually. The metering system shall be capable of maintaining all data collected for a minimum of 36 months.~~

~~2. For buildings with tenants, the distribution systems shall be separately monitored for the total building and for each individual tenant space. The data for each tenant space shall be made available to that tenant.~~

EXCEPTION to Section 130.5(a): ~~Buildings~~ Service or feeder for which the utility company provides a metering system ~~capable of electrical energy measurement in accordance with TABLE 130.5-A requirements for occupant or user use that indicates instantaneous kW demand and kWh for a user resettable period~~that indicates instantaneous kW demand and kWh for a utility-defined period.

~~**EXCEPTION to Section 130.5(a)1:** The following buildings and areas are not required to comply with this section:~~

~~1. Building less than 25,000 square feet;~~

~~2. Individual tenant areas less than 10,000 square feet;~~

~~3. Dwelling units;~~

~~4. Functional areas where compliance with the residential lighting standards is required in accordance with Section 130.0(b);~~

~~5. Residential buildings with less than 10,000 square feet or common area;~~

~~6. Critical and Equipment branches as defined by California Electrical Code.~~

(b) ~~**Disaggregation**~~ Separation **of Electrical Circuits** ~~/~~**for Electrical Energy Monitoring**. Electrical power distribution systems shall ~~allow installation of~~ be designed so that measurement devices ~~for~~ can monitor~~ing~~ the electrical energy usage of load types ~~be designed to permit the disaggregated measurement of electrical load energy uses downstream from the service meter~~ according to TABLE 130.5-B. ~~Additive and subtractive methods may be used to determine aggregate and disaggregated energy use. This may be accomplished by any of the following methods:~~