



2019 Energy Code –

Nonresidential Electrical Power Distribution Systems

California Energy Commission



The 2019 Energy Code

- **Effective January 1, 2020**
 - Based on date of application for building permit
- **30% more efficient** than 2016 Code (nonresidential)
- **Applies to occupancy groups:**
 - A, B, E, F, H, I, M, R, S, and U
 - I-1 and I-2 (healthcare facilities)
 - **Does not apply to I-3, I-4, L** (Institution and Labs)
- **Sections applicable to EPDS**
 - 130.5, 141.0(b)2P



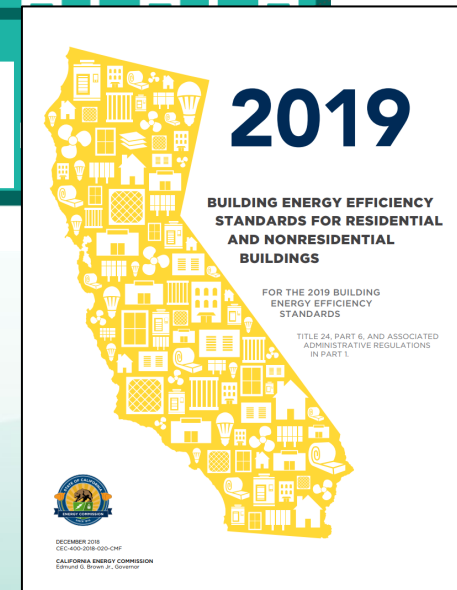
HEALTHCARE FACILITIES

For the first time, energy efficiency standards extend to newly constructed healthcare facilities and incorporates the appropriate application of standards.



LIGHTING

Update indoor and outdoor lighting values to assume the use of LED lighting. LED lights use little energy and will save money on monthly electricity bills meaning smaller operating budgets for commercial buildings. Maintenance costs are reduced because bulbs do not need to be changed as often. The standards also add occupancy sensing requirements for restrooms.





Nonresidential Electrical Power Distribution Systems (EPDS)



110.11 Low-Voltage Dry-type Distribution Transformers

- **Low-voltage dry-type distribution transformers:**
 - Must be certified by the manufacturer as required by the Title 20 Appliance Efficiency Regulations
 - Must be listed in the Modernized Appliance Efficiency Database System
- **Low-voltage dry-type distribution transformer** is a distribution transformer that:
 - Has an input voltage of 600 volts or less; and
 - Is air-cooled; and
 - Does not use oil as a coolant
- **Exceptions:**
 - Autotransformer, drive transformer, grounding transformer
 - Machine tool transformer, non-ventilated transformer
 - Rectifier transformer, regulating transformer
 - Sealed transformer, special-impedance transformer
 - Testing transformer, transformer with tap range of 20 percent or more
 - Uninterruptible power supply transformer
 - Welding transformer

The screenshot shows the 'Advanced Search' page of the California Energy Commission's Modernized Appliance Efficiency Database System. The page header includes the 'CA.GOV' logo and 'CALIFORNIA ENERGY COMMISSION'. A 'SEARCH' button is visible in the header. The main content area is titled 'Advanced Search' and contains a paragraph explaining the search functionality. Below this, there are three sections: 'Select Appliance Type', 'Select Fields to Display', and 'Filters'. The 'Select Appliance Type' section has three dropdown menus: 'Select Category' (set to 'Transformer Products'), 'Select Appliance' (set to 'Transformers'), and 'Select Appliance Status' (set to 'Approved'). The 'Select Fields to Display' section has a 'Select/Deselect All' checkbox and a grid of checkboxes for various fields: Manufacturer, Brand, Model Number, Transformer Type, Phase, KVA, Output Power, Total Loss Power, Nameplate Efficiency, Efficiency Std, Nameplate Efficiency 2, Efficiency 2 Std, Nameplate Efficiency 3, Efficiency 3 Std, Regulatory Status, Add Date, and Reference Number. The 'Filters' section has five rows of three input fields each, each starting with 'Please Select'. At the bottom right, there are 'Search' and 'Clear' buttons.

CA.GOV CALIFORNIA ENERGY COMMISSION

SEARCH

Help | Back To Login

Advanced Search

The Advanced Search allows you to create a narrower search by selecting unique model criteria. You will be guided to select the category, type, then narrow your search results with additional filters. In this search you can select the fields displayed in the results by checking the "Select All" box. There are also additional filters that can be applied to look up specific model information.

To search historical models, please set the appliance status to archived.

Questions can be directed to Appliances@energy.ca.gov or to the Appliances Hotline, toll free at (888) 838-1467 or outside California (916) 651-7100. [Search Instructions](#) are also available.

Select Appliance Type

Select Category: Transformer Products | Select Appliance: Transformers | Select Appliance Status: Approved

Select Fields to Display

☐ Select/Deselect All

☒ Manufacturer ☒ Brand ☒ Model Number ☒ Transformer Type

☒ Phase ☐ KVA ☐ Output Power ☐ Total Loss Power

☐ Nameplate Efficiency ☐ Efficiency Std ☐ Nameplate Efficiency 2 ☐ Efficiency 2 Std

☐ Nameplate Efficiency 3 ☐ Efficiency 3 Std ☒ Regulatory Status ☒ Add Date

☐ Reference Number

Filters

Please Select | Please Select | Please Select

Please Select | Please Select | Please Select

Please Select | Please Select | Please Select

Please Select | Please Select | Please Select

Please Select | Please Select | Please Select

Search Clear



130.5(a) Service Electrical Metering

- **Each service or feeder** must have a permanently installed metering system which measures electrical energy
 - Utility meter satisfies the metering requirement (show instantaneous kW, kWh over utility defined period)
 - If a utility meter is not installed, meter capability is dependent on kVA of the service
 - Exception: EPDS subject to California Electrical Code Article 517

TABLE 130.5-A MINIMUM REQUIREMENTS FOR METERING OF ELECTRICAL LOAD

Metering Functionality	Electrical Services rated 50 kVA or less	Electrical Services rated more than 50kVA and less than or equal to 250 kVA	Electrical Services rated more than 250 kVA and less than or equal to 1000kVA	Electrical Services rated more than 1000kVA
Instantaneous (at the time) kW demand	Required	Required	Required	Required
Historical peak demand (kW)	Not required	Not required	Required	Required
Tracking kWh for a user-definable period.	Required	Required	Required	Required
kWh per rate period	Not required	Not required	Not required	Required





130.5(b), 141.0(b)2P Separation of Electrical Circuits

- **Newly constructed buildings**
 - EPDS designed to allow for measuring loads according to TABLE 130.5-B
 - Allows flexible approaches for providing measuring ability
- **Alterations**
 - Only applicable for complete replacements of power distribution systems
 - Most projects will not fall under this trigger
- **Exceptions:**
 - For each load type, up to 10% of connected load may be of any type
 - EPDS subject to California Electrical Code Article 517

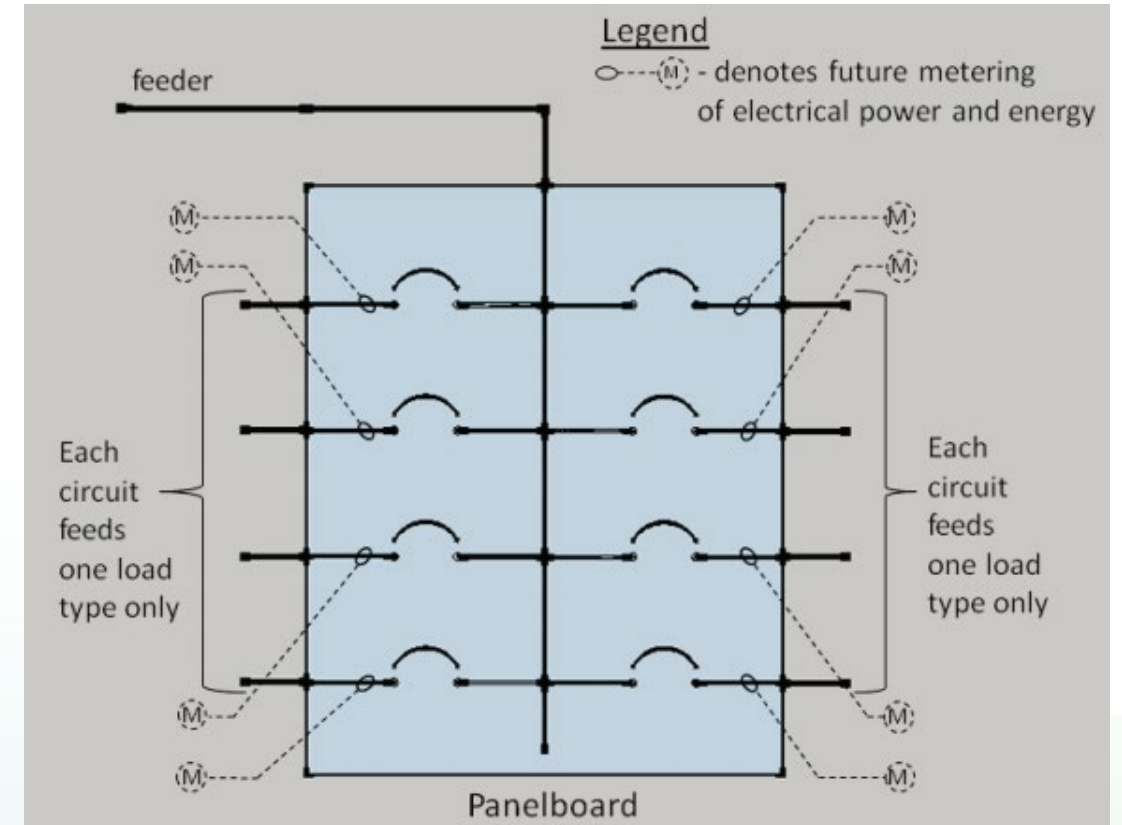




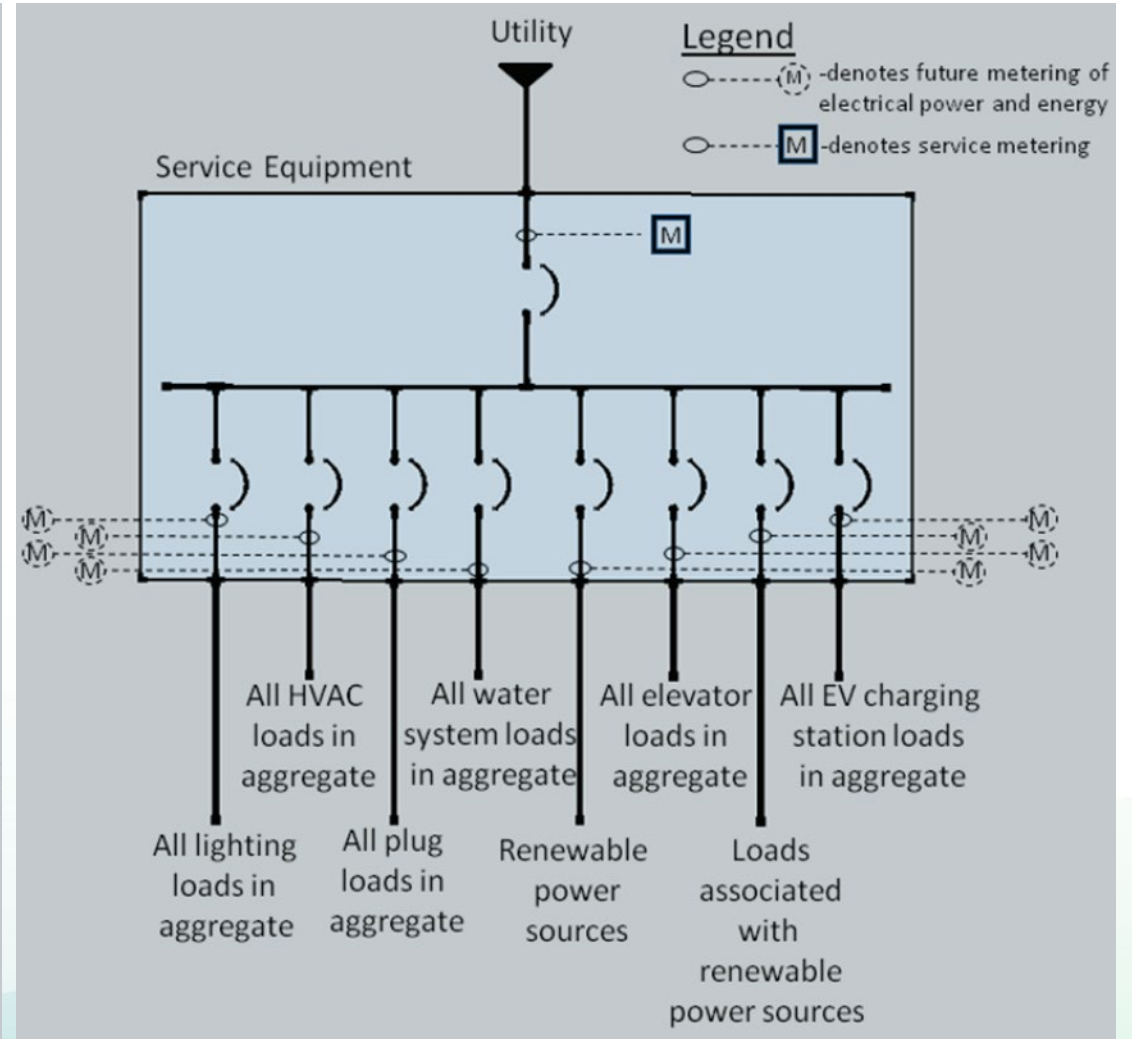
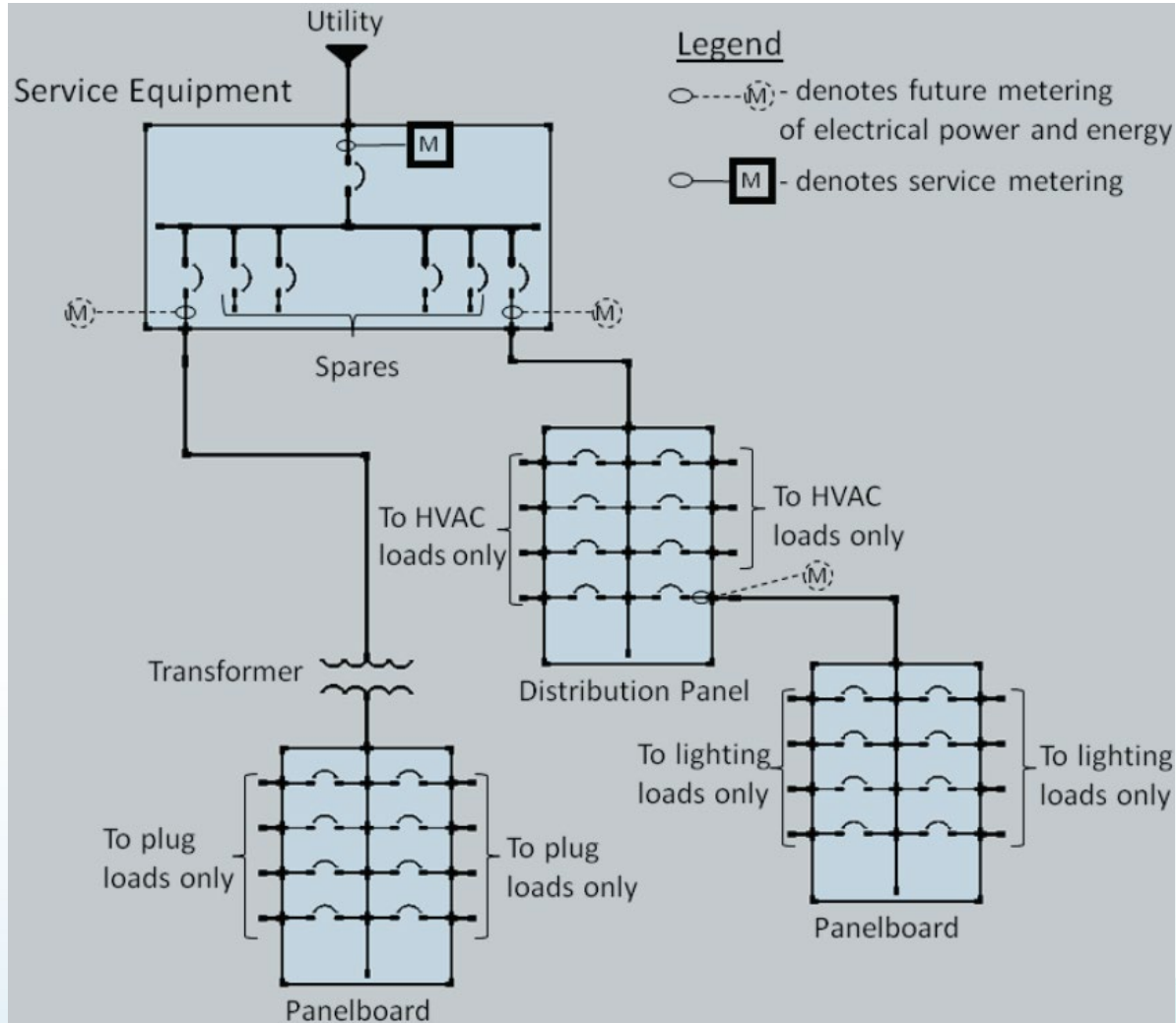
TABLE 130.5-B

TABLE 130.5-B MINIMUM REQUIREMENTS FOR SEPARATION OF ELECTRICAL LOAD

Electrical Load Type	Electrical Services rated 50 kVA or less	Electrical Services rated more than 50kVA and less than or equal to 250 kVA	Electrical Services rated more than 250 kVA and less than or equal to 1000kVA	Electrical Services rated more than 1000kVA
Lighting including exit and egress lighting and exterior lighting	Not required	All lighting in aggregate	All lighting disaggregated by floor, type or area	All lighting disaggregated by floor, type or area
HVAC systems and components including chillers, fans, heaters, furnaces, package units, cooling towers, and circulation pumps associated with HVAC	Not required	All HVAC in aggregate	All HVAC in aggregate and each HVAC load rated at least 50 kVA	All HVAC in aggregate and each HVAC load rated at least 50kVA
Domestic and service water system pumps and related systems and components	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Plug load including appliances rated less than 25 kVA	Not required	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug load separated by floor, type or area All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf
Elevators, escalators, moving walks, and transit systems	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Other individual non-HVAC loads or appliances rated 25kVA or greater	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Industrial and commercial load centers 25 kVA or greater including theatrical lighting installations and commercial kitchens	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Renewable power source (net or total)	Each group	Each group	Each group	Each group
Loads associated with renewable power source	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Charging stations for electric vehicles	All loads in aggregate	All loads in aggregate	All loads in aggregate	All loads in aggregate



130.5(b) Separation of Electrical Circuits





130.5(c), 141.0(b)2P Voltage Drop

- **Combined** voltage drop of feeder conductors and branch circuits must **not exceed 5%**
- **Alterations**
 - Applicable when both feeders and branch circuits are added or replaced
- **Exception:** voltage drop permitted by CA Electrical Code Sections 647.4, 695.6, and 695.7

Voltage drop $\leq 5\%$



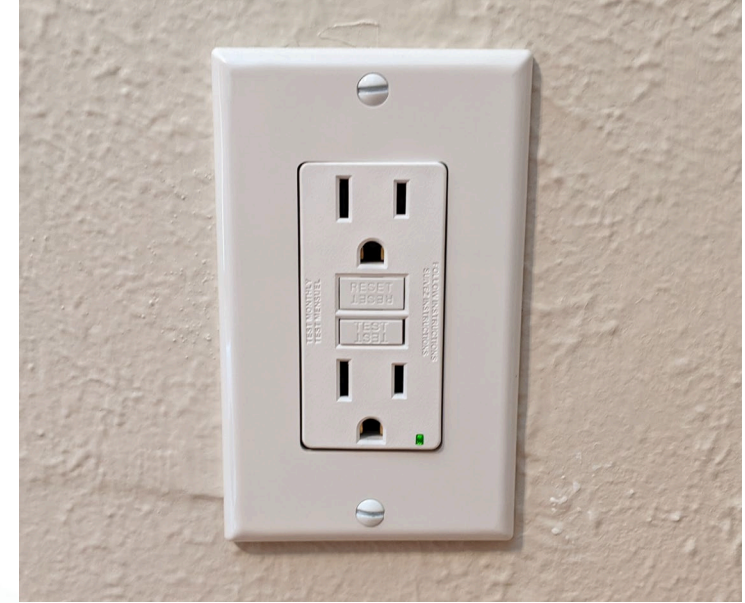
130.5(d), 141.0(b)2P Controlled Receptacles

- **Controlled receptacles are required in:**

- Office areas
- Lobbies
- Conference rooms
- Kitchen areas in office spaces
- Copy rooms
- Hotel and motel guest rooms

- **Requirements for controlled receptacles:**

- Automatic time-switch controls (plus 2-hour override) or motion control
- Controlled receptacle must be marked
- At least one controlled receptacle or split wired receptacle within 6 feet of uncontrolled receptacle





130.5(d), 141.0(b)2P Controlled Receptacles cont.

- **Hotel/Motel Guest rooms**
 - At least 50% of receptacles must be controlled
 - Captive card key or occupancy sensing controls
 - Shut-off after 30 minutes of vacancy
- **Alterations**
 - Only applicable for complete replacements of power distribution systems
 - Most alteration projects will not need to meet controlled receptacle requirements
- **Exceptions:**
 - Receptacles specifically for refrigerators and water dispensers in kitchen areas
 - Receptacles located a minimum of six feet above the floor that are specifically for clocks
 - Receptacles for network copiers, fax machine, A/V and data equipment other than personal computers in copy rooms



Forms



Certification of Compliance

- **Certificate of Compliance (NRCC-XXX)**
 - Submitted with permit application, included with plans
 - Used by plans examiner to verify compliance
 - LPA calculations, schedules, lighting controls, PAF, voltage drop, electrical metering, separation of circuits, controlled receptacles, etc.
- **Indoor**
 - NRCC-LTI-E
- **Outdoor**
 - NRCC-LTO-E
- **EPDS, Sign**
 - NRCC-ELC-E, NRCC-LTS-E





- **Certificate of Installation (NRCI-XXX)**
 - Completed by installing contractor
 - Left on-site for building inspector
 - Identifies construction documents that show lighting, controls and EPDS systems were installed as proposed in the certificate of compliance
- **Indoor**
 - NRCI-LTI-01 – NRCI-LTI-06
- **Outdoor**
 - NRCI-LTO-01 – NRCI-LTO-02
- **EPDS, Sign**
 - NRCI-ELC-01, NRCI-LTS-01

[illegible]



Nonresidential EPDS Form

- Certificate of Compliance forms combined into one interactive PDF
- Auto populate information from user inputs and conduct simple math
- Form expands and collapses based on selections
- Drop down selections
- Interactive instructions
- Add and delete table rows
- One single signature page

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)(2) for alterations.

Project Name: _____ Report Page: _____ Page 1 of 3
Project Address: _____ Date Prepared: _____

A. GENERAL INFORMATION

01 Project Location (city): _____ 02 Occupancy Types Within Project:

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/ Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare Facilities ☐ Other (Write In): _____

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06	
Electrical Service Designation/Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls	
					Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.	
			☐	☐		
					Add Row	Remove Last

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01	02	03	04	05			
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
	AND		AND		AND		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020



Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".							
01	AND	02	AND	03	AND	04	05
Service Electrical Metering §130.5(a)		Separation for Monitoring §130.5(b)		Voltage Drop §130.5(c)		Controlled Receptacles §130.5(d)	
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
	AND	Yes	AND	Yes	AND	Yes	COMPLIES with Exceptional Conditions



NRCC-ELC-E cont.

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: California Energy Commission

Report Page:

Page 2 of 5

Project Address: 1516 9th Street, Sacramento, CA 95814

Date Prepared:

4/1/2020

D. EXCEPTIONAL CONDITIONS



This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table B indicates the project is exempt from §130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS



This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING



This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING



Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description: 9th St.					
01	02	03	04	05	
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 1	E1	☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 1	E2	☐	☐
Domestic and service water systems	All loads in aggregate	Method 1	E3	☐	☐
Plug Loads and appliances < 25kVA	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1	E4	☐	☐
Other non-HVAC loads or appliances ≥ 25kVA	All loads in aggregate	Method 1	E5	☐	☐
Charging stations for electric vehicles	All loads in aggregate	Method 1	E6	☐	☐

Table Continued



NRCC-ELC-E cont.

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF COMPLIANCE

NRCC-ELC-E

Project Name: California Energy Commission

Report Page:

Page 4 of 5

Project Address: 1516 9th Street, Sacramento, CA 95814

Date Prepared:

4/1/2020

01	02	03	04	05	06	
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
Conference Room	Within 6ft of uncontrolled receptacles	Occupancy Sensor	☒	E1	☐	☐
Open office area	Within 6ft of uncontrolled receptacles	Occupancy Sensor	☒	E1	☐	☐
Kitchen/break room	Within 6ft of uncontrolled receptacles	Occupancy Sensor	☒	E2	☐	☐
				Add Row	Remove Last	

* If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION



Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
☒	☐	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE



There are no Certificates of Acceptance applicable to electrical power distribution requirements.



Nonresidential EPDS for the Plans Examiner

- Verify plans with NRCC-ELC-E form
 - Verify service electrical metering
 - Metering capability or utility meter
 - Verify separation of electrical circuits
 - Separation of loads based on service kVA rating
 - Verify voltage drop calculations
 - 5% or less
 - Verify controlled receptacles in required spaces

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in [§130.5](#) for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per [§141.0\(a\)](#) or [§141.0\(b\)\(2\)](#) for alterations.

Project Name: _____ Report Page: _____ Page 1 of 3
Project Address: _____ Date Prepared: _____

A. GENERAL INFORMATION

01 Project Location (city): _____ 02 Occupancy Types Within Project:

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/ Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare Facilities ☐ Other (Write In): _____

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
					Demand Response Controls

Electrical Service Designation/Description

FOOTNOTES: Adding only
2 Applicable if the utility company requires it

C. COMPLIANCE RESULT

Table Instructions: If this

01	
Service Electrical Metering	A
§130.5(a)	
(See Table F)	A

CA Building Energy Efficiency



Nonresidential EPDS the Building Inspector

- Verify installation matches plans and NRCC-ELC-E
 - Use NRCC-ELC-E as an inspection checklist
- Verify service metering
- Verify separation of electrical circuits
- Verify installed receptacle controls
 - At least one controlled receptacle within 6 feet of an uncontrolled receptacle
- Verify completed NRCI forms





Resources



Approved Compliance Software

Residential

- CBECC-Res
- EnergyPro
- Right-Energy Title 24

Nonresidential

- CBECC-Com
- EnergyPro

- More information and up to date [list of approved software](#)



Blueprint Newsletter

- Published quarterly
- Clarifies frequently asked questions on all topics related to the Energy Code
- Highlights new resources, clarifications, and more on the Energy Code
- Sign up for our list server and receive Blueprint Newsletter email quarterly
- More information about the [Blueprint Newsletter](#)

Issue 126April - June 2019

BLUEPRINT

CALIFORNIA ENERGY COMMISSION
EFFICIENCY DIVISION

IN THIS ISSUE

- 2019 Energy Code: Low-rise Residential Summary of Major Changes
- 2019 Energy Code: Nonresidential, Hotel and Motel, High-rise Residential Summary of Major Changes
- 2019 Energy Code: CBECC Software and ACM Manuals Approved
- 2016 Energy Code: New Fact Sheets and Videos for Covered Processes
- Q&A
 - Outdoor Electric Heating
 - Flag Pole Lighting
 - Continuous Insulation and Z-Clips
- Energy Code Ace Class Schedule
- Energy Code Ace 2019 Reference Ace

2019 ENERGY CODE: LOW-RISE RESIDENTIAL SUMMARY OF MAJOR CHANGES

The most significant change in the 2019 Building Energy Efficiency Standards (Energy Code) for low-rise residential buildings is the introduction of photovoltaic (PV) requirements in the prescriptive standards. There are also significant changes related to the indoor air quality requirements. This is a summary of these and other major changes:

Mandatory Measures

1. Walls with 2x6 framing require R-20 minimum insulation for wood-framed; or 0.071 maximum U-factor. **§ 150.0(c)2**
2. Modifications to the indoor air quality requirements of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 62.2 are included for various building and dwelling unit configurations such as horizontally attached buildings, or central ventilation systems. Balanced or continuously operating supply or exhaust ventilation system required. Home Energy Rating System (HERS) verification required when kitchen range hoods are installed. **§ 150.0(o)**
3. Minimum efficiency reporting value (MERV) 13 air filters (or equivalent) are required for heating, cooling, and on the supply side of ventilation systems. **§ 150.0(m)12**
4. Fan efficacy requirements are 0.45 watts/cubic feet per minute (CFM) or less for gas furnace air-handling units; or 0.58 watts/CFM or less for air-handling units that are not gas furnaces. New fan efficacy requirement for small-duct high-velocity forced-air systems. **§ 150.0(m)13B, C, D**

Prescriptive Compliance

1. New PV solar electric generation requirement. **§ 150.1(c)14**
2. New prescriptive **Table 150.1-B** for multifamily buildings. **§ 150.1(c)**
3. Wall U-factors in climate zones 1-5 and 8-16 reduced to 0.048 maximum in single-family buildings; climate zones 6-7 remain at 0.065 maximum. **§ 150.1(c)1B**
4. New exterior door U-factor 0.20 maximum and National Fenestration Rating Council (NFRC) labeling requirements. **§ 150.1(c)5, § 110.6(a)5**
5. Quality insulation installation (QII) for all single-family buildings in all climate zones, and multifamily buildings in all climate zones except climate zone 7. HERS verification required. **§ 150.1(c)1E**
6. New prescriptive options for heat pump water heaters for newly constructed buildings, additions, and alterations. **§ 150.1(c)8, § 150.2(a)1D, § 150.2(b)1H**



Online Resource Center

Online Resource Center

The Online Resource Center provides educational assistance about the Building Energy Efficiency Standards to building and enforcement communities. The California Energy Commission and utilities developed the resources, which include fact sheets, energy videos, and presentations.

Expand All

Compliance Forms



Energy Videos



Trainings and Upcoming Events



Exhibitor Booth Handouts



ENERGY STANDARDS AND FORMS

BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24

2022 Building Energy Efficiency Standards

2019 Building Energy Efficiency Standards

2016 Building Energy Efficiency Standards

Online Resource Center

Past Building Energy Efficiency Standards

CONTACT

[Building Energy Efficiency Standards - Title 24](#)

Toll-free in California: 800-772-3300

Outside California: 916-654-5106

SUBSCRIBE

Building Energy Efficiency Standards

First Name *

RESOURCES AND TRAINING MATERIALS



Overview

Look for informational resources that cover multiple building components in a single document for residential and nonresidential buildings.



Commissioning

Mandatory commissioning requirements for nonresidential buildings.



Covered Processes

Mandatory and prescriptive covered processes requirements for nonresidential buildings.



Electrical Power Distribution

Mandatory electrical power distribution requirements for nonresidential buildings.



Online Resource Center webpage



Energy Code Ace

A screenshot of the EnergyCodeAce website. The header features the "EnergyCodeAce" logo with the tagline "Helping you play your cards right" and navigation links for "About" and "Contact". Below the header is a navigation bar with "Tools Ace", "Training Ace", and "Resources Ace" dropdown menus, along with a search bar. The main content area has a headline: "Don't gamble on Title 24, Part 6 and Title 20 compliance. Ace it with:". Below this are three cards: "Ace Tools" (blue spade icon), "Ace Training" (green club icon), and "Ace Resources" (red heart icon). Each card contains a brief description of the resources and an "Ace it" button. The cards are decorated with playing card symbols in the corners.

- Forms & Resource tools
- Free training (in person and online)
- Checklists, Trigger Sheets for building departments
- [Energy Code Ace](#) webpage



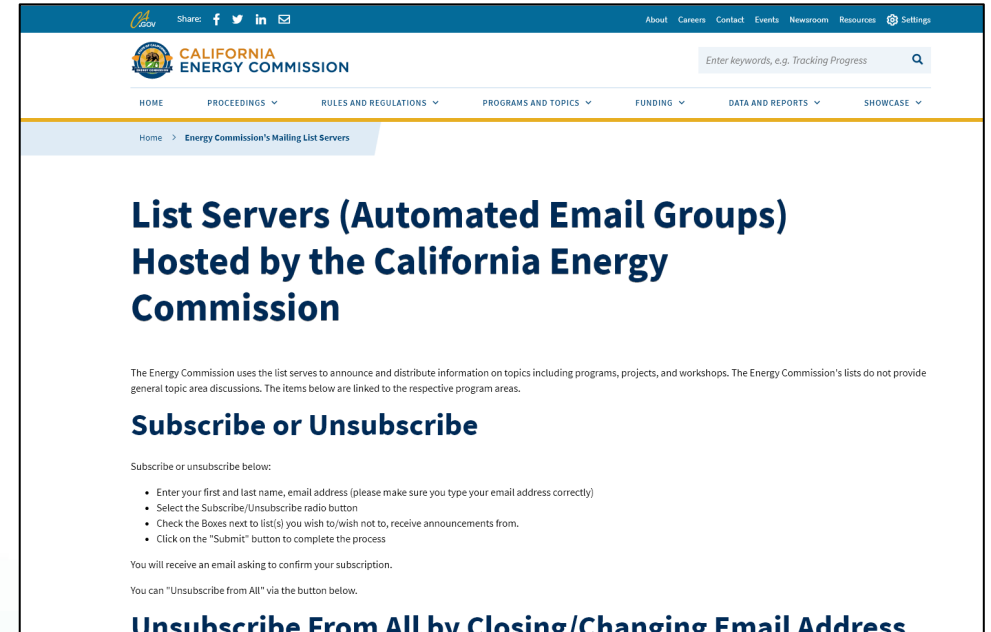
Hotline

- Open Monday through Friday
 - 8:00 a.m. to noon
 - 1:00 p.m. to 4:30 p.m.
- Call at:
 - 1-800-772-3300 (In CA, toll free)
 - 1-916-654-5106 (Outside CA)
- Email at: Title24@energy.ca.gov



E-mail Lists

- Main conduit for communicating with stakeholders
- Sign up on [CEC listserver](#) webpage
- Subscribe to the following Efficiency Lists:
 - Building Standards
 - Blueprint
- Respond to confirmation email within 24 hours





Thank You!