CERTIFICATE OF INSTALLATION

This Certificate of Installation documents the installation of electrical power distribution system features, materials, components, and manufactured devices required to demonstrate compliance with Title 24, Part 6 per §10-103(a)3 for nonresidential, hotel/motel and high-rise residential occupancies.

Project Name:	Enforcement Agency:
Dwelling Address:	Permit Number:
City and Zip Code:	Date Permit Issued:

A. GENERAL INFORMATION

01	Project Location (city):		05	Authority Having Jurisdiction:	
02	Zip Code:		06	Building Permit #:	
03	Date of Permit Set used for construction:		07	Date of As-built Set:	
04	Name of Permit Set used for construction:		08	Name of As-built Set:	

B. INSTALLER SCOPE

This table indicates construction systems and materials documented on this Certificate of Installation.

01			
☐	Electric Service Meter(s)	☐	Voltage Drop to feeders
☐	Separation of load downstream of meter(s)	☐	Voltage Drop to branch circuits
☐	120V Receptacle (Outlet) Control(s)		

C. COMPLIANCE RESULTS

This table indicates whether the as-built conditions documented in this form are equal or better than what was documented on the permitted Certificate of Compliance. If the installation is not equal or better, Section 10-103(a)2B requires the Certificate of Compliance to be revised accordingly to demonstrate compliance.

01	**INSTALLED FEATURES EXACTLY MATCH DESIGN ON PERMITTED CERTIFICATE OF COMPLIANCE**
Documented as-built conditions should be verified by inspector from Authority Having Jurisdiction to comply.	

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of field conditions noted by the installer that may impact requirements documented on the Certificate of Compliance.

E. INSTALLER NOTES

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

F. INSTALLATION DETAILS

The following tables indicate performance requirements as documented on the permitted Certificate of Compliance for all systems and components included in Table B. Installer Scope. Also indicated are the as-built conditions documented by the installer/ documentation author.

Service Electrical Metering

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Rating (kVA)	Required Metering Capabilities				Metering Compliance
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	
Per C of C						
As-built Conditions						

[1] FOOTNOTES: Service is defined as "the conductors and equipment for delivering electric energy from the serving utility to the wiring system of the premise served" in §100.1 of the Energy Standards. 'Electrical Services' applies to the building service-entrance rating or to the submetering service. For a building with submetering, this applies to the submetering service size to the common use areas.

[2] Feeder is defined as "all circuit conductors between the service equipment, the source of a separately derived system, or other power supply source and the final branch-circuit overcurrent device," in Article 100 of the California Electrical Code.

Separation of Electrical Circuits for Energy Monitoring

Submetered electrical power distribution systems that provide power to dwelling units/common living areas only in multifamily occupancies do not need to be included.

Electrical Service Designation/ Description:

01	02	03	04
Load Type[1]	Minimum Required Separation of Load	Separation Method [2]	Compliance
Per C of C			
As-built Conditions			

Feeder and Branch Circuit Conductor Voltage Drop

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Voltage Drop Calculations	Voltage Drop to the Feeder(s) (%)	Voltage Drop After the Feeder(s) (%)	Total Voltage Drop (%)	Voltage Drop Compliance
Per C of C						
As-built Conditions						

Circuit Controls and Controlled Receptacles

01	02	03	04	05	06
Room Name or Description	Location/ Type of Controlled Receptacles [1, 2]	Shut-Off Controls	Demand Response Controls	Permanent Marking is Used	Compliance
Per C of C					
As-built Conditions					

[1] FOOTNOTES: Office areas, lobbies, conference rooms, kitchen areas in office spaces, and copy rooms must meet controlled receptacle requirements

[2] Plug-in strips and other plug-in devices shall not be used to comply with the requirements of section 130.5(d)

Electric Ready for Multifamily Occupancies

Gas/ Propane Furnaces Serving Individual Dwelling Units (Heat Pump Space Heater Ready)

Requirement
A dedicated 240 volt branch circuit shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as “240V ready”. All electrical components shall be installed in accordance with the California Electrical Code.
The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future heat pump space heater installation. The reserved space shall be permanently marked as “For Future 240V use”.

Gas/ Propane Cooktops Serving Individual Dwelling Units

Requirement
A dedicated 240 volt branch circuit shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions. The branch circuit shall be rated at 50 amps minimum. The blank cover shall be identified as “240V ready”. All electrical components shall be installed in accordance with the California Electrical Code.
The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric cooktop installation. The reserved space shall be permanently marked as “For Future 240V use”.

Gas/ Propane Clothes Dryers Serving Individual Dwelling Units

Requirement
A dedicated 240 volt branch circuit shall be installed within 3 feet from the clothes dryer and accessible to the clothes dryer with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as “240V ready”. All electrical components shall be installed in accordance with the California Electrical Code.
The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric clothes dryer installation. The reserved space shall be permanently marked as “For Future 240V use”.

Gas/ Propane Clothes Dryers In Common Areas

Requirement
Conductors or raceway shall be installed with termination points at the main electrical panel, via subpanels panels if applicable, to a location no more than 3 feet from each gas outlet or a designated location of future electric replacement equipment. Both ends of the conductors or raceway shall be labelled “Future 240V Use.” Gas flow rates shall be determined in accordance with the California Plumbing Code. Capacity shall be one of the following: - 24 amps at 208/240 volts per clothes dryer; - 2.6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or - The electrical power required to provide equivalent functionality of the gas-powered equipment as calculated by the responsible person.

Gas/Propane Water Heaters Serving Individual Dwelling Units

Requirement
A dedicated 125 volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor branch circuit rated to 30 amps minimum, within 3 feet from the water heater and accessible to the water heater with no obstructions. In addition, all the following: - Both ends of the unused conductor shall be labeled with the word “spare” and be electrically isolated; and - A reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit in A above and labeled with the words “Future 240V Use”
The construction drawings shall designate a space at least 39 inches by 39 inches and 96 inches tall for the future location of heat pump water heater

Gas/Propane Water Heaters Serving Multiple Dwelling Units

Requirement
Physical space shall be reserved on the bus system of the main switchboard or on the bus system of a distribution board to serve the future heat pump water heater system including the heat pump and temperature maintenance tanks. In addition, the physical space reserved shall be capable of providing adequate power to the future heat pump water heater in accordance with the following: - Heat Pump. Meet one of the following: - The electrical power required to power a heat pump water heater system heat pump that meets the total building hot water demand as calculated and documented by the responsible person associated with the project. - The electrical power required that meets the requirements specified for the heat pump in Joint Appendix JA15.2.5. - Temperature Maintenance Tank. Meet one of the following: - The electrical power required to power a heat pump water heater system temperature maintenance tank that meets the total building hot water demand as calculated and documented by the responsible person associated with the project. - The electrical power required that meets the requirements specified for the temperature maintenance tank in Joint Appendix JA15.2.5.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Installation documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Documentation Author Company Name:	Date Signed:
Address:	CEA/AEA/ECC Certification Identification (If applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Installation is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.
3. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations and the installation conforms to the requirements given on the Certificate of Compliance, plans, and specifications approved by the enforcement agency.
4. I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.
5. I understand that a completed signed copy of this Certificate of Installation shall be made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. I understand that a completed signed copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy. I will take the necessary steps to fulfill this requirement.

Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Responsible Person Scope		
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

A. General Information

1. Enter the City the project is located in.
2. Enter the zip code.
3. Enter the Date of Permit Set used for construction.
4. Enter the Name of Permit Set used for construction.
5. Enter the Authority Having Jurisdiction.
6. Enter the Building Permit #.
7. Enter the Date of As-Built Set.
8. Enter the Name of As-Built Set.

B. Project Scope

1. Select all applicable construction systems and materials documented.

C. Compliance Results

1. This table is automatically filled with uneditable comments based on data entered in Section F.

D. Exceptional Conditions

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

E. Additional Remarks

1. Enter any notes or comments for the AHJ.

F. Installation Details

Service Electrical Metering

1. This field is filled out automatically.
2. Enter the Rating (kVA).
3. Instantaneous Demand (kW): Select from dropdown.
4. Historical Peak Demand (kW): Select from dropdown.
5. Tracking kWh for user-defined period: Select from dropdown.
6. kWh per rate period: Select from dropdown.
7. This field is filled out automatically.

Separation of Electrical Circuits for Energy Monitoring

1. This field is filled out automatically.
2. This field is filled out automatically.
3. Separation Method: Select from Dropdown.
4. This field is filled out automatically.

Feeder and Branch Circuit Conductor Voltage Drop

1. This field is filled out automatically.
2. Combined Voltage Drop. Conductors Compliance Method: Select from Dropdown.
3. Voltage Drop Calculations: Select from Dropdown.
4. Voltage Drop to the Feeder(s) %: Select from Dropdown.
5. Voltage Drop After the Feeder(s) %: Select from Dropdown.
6. This field is filled out automatically.

7. This field is filled out automatically.

Circuit Controls and Controlled Receptacles

1. This field is filled out automatically.
2. Location/type of controlled receptacles: Select from Dropdown.
3. Shut-off Controls: Select from Dropdown.
4. Demand Response Controls: Select from Dropdown.
5. Permanent Durable Marking is Used: Select from Dropdown.
6. This field is filled out automatically.

Documentation Declaration Statements

1. The person who prepared the NRCI will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.