SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

CERTIFICATE OF INSTALLATION

Note: This table completed by ECC Registry.

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

A. General Information

01	Project Scope	

B. Heat Pump Space Heater Ready

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions.
02	The branch circuit conductors shall be rated at 30 amps minimum
03	The blank cover shall be identified as "240V ready".
04	All electrical components shall be installed in accordance with the *California Electrical Code*.
05	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".

C. Electric Cooktop Ready

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions.
02	The branch circuit conductors shall be rated at 50 amps minimum.
03	The blank cover shall be identified as "240V ready".
04	All electrical components shall be installed in accordance with the *California Electrical Code*.
05	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".

D. Electric Clothes Dryer Ready – Systems Serving Individual Dwelling Units

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the clothes dryer location and accessible to the clothes dryer location with no obstructions.
02	The branch circuit conductors shall be rated at 30 amps minimum.
03	The blank cover shall be identified as "240V ready".
04	All electrical components shall be installed in accordance with the *California Electrical Code*.
05	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".

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E. Electric Clothes Dryer Ready – Systems in Common Areas

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	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.
02	Both ends of the conductors or raceway shall be labelled "Future 240V Use."
03	Capacity shall be one of the following: i. 24 amps at 208/240 volts per clothes dryer; ii. 6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or iii. The electrical power required to provide equivalent functionality of the gas-powered equipment as calculated and documented by the responsible person associated with the project.
04	The capacity requirements may be adjusted for demand factors in accordance with the California Electric Code. Gas flow rates shall be determined in accordance with the California Plumbing Code.

F. Individual Heat Pump Water Heater Ready

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	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: A. Both ends of the unused conductor shall be labeled with the word "spare" and be electrically isolated; and B. 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"; and
02	A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance, and
03	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.
04	A ventilation method meeting one of the following: A. The designated space for the future heat pump water heater shall have a minimum volume of 700 cubic feet; or B. If the future HPWH space is designed to vent indoors, the designated space for the future heat pump water heater shall vent to a communicating space in the same pressure boundary. The total combined volume connected shall be 700 cubic feet or larger and vent to the interior via: i. Fully louvered doors with fixed louvers consisting of a single layer of fixed flat slats and a minimum total NFA of 250 square inches; or ii. Two permanent openings of equal area with a minimum total NFA of 250 square inches located within 12 inches from the enclosure top and bottom; or iii Two 8-inch ducts to a communicating space. C. If the future HPWH space is designed to vent indoors, the designated space for the future heat pump water heater shall vent to a communicating space in the same pressure boundary. The total combined volume connected shall be 700 cubic feet or larger and vent to the interior via: i. Fully louvered doors with fixed louvers consisting of a single layer of fixed flat slats and a minimum total NFA of 250 square inches; or ii. Two permanent openings of equal area with a minimum total NFA of 250 square inches located within 12 inches from the enclosure top and bottom; or iii. Two 8 inches capped ducts. All ducts that cross the pressure boundary shall be insulated to a minimum insulation level of R-6 and the ducts, connections, and building penetrations shall be sealed.

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G. Central Heat Pump Water Heater Ready

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

01	The system input capacity of the gas or propane water heating system shall be determined as the sum of the input gas or propane capacity of all water heating devices associated with each gas or propane water heating system.
02	Space reserved shall include: A. Heat Pump. The minimum space reserved shall include space for service clearances and air flow clearances and shall meet one of the following: i. The space reserved shall be the space required for a heat pump water heater system that meets the total building hot water demand as calculated and documented by the responsible person associated with the project; or ii. The space reserved shall meet the requirements specified in Joint Appendix JA15.2.1. B. Tanks. The minimum space reserved shall include space for service clearances and shall meet one of the following: i. The space reserved shall be the space required for a heat pump water heater system that meets the total building hot water demand as calculated and documented by the responsible person associated with the project; or ii. The space reserved shall meet the requirements specified in Joint Appendix JA15.2.2.
03	Ventilation shall be provided by meeting one of the following: A. Physical space reserved for the heat pump shall be located outside; or B. A pathway shall be reserved for future routing of supply and exhaust air via ductwork from the reserved heat pump location to a suitable outdoor location. Penetrations through the building envelope for louvers and ducts shall be planned and identified for future use. The reserved pathway and penetrations through the building envelope shall be sized to meet one of the following: i. The reserved pathway and penetrations shall be sized to serve a heat pump water heater system that meets the total building hot water demand as calculated and documented by the responsible person associated with the project. ii. The reserved pathway and penetrations shall be sized to meet the requirements specified in Joint Appendix JA15.2.3.
04	Condensate drainage piping. An approved receptacle that is sized per the California Plumbing Code for condensate drainage shall be installed within 3 feet of the reserved heat pump location, or piping shall be installed from within 3 feet of the reserved heat pump location to an approved discharge location that is sized in accordance with the California Plumbing Code, and meet one of the following: i. Condensate drainage shall be sized to serve a heat pump water heater system that meets the total building hot water demand as calculated and documented by the responsible person associated with the project. ii. Condensate drainage piping shall be sized to meet the requirements specified in Joint Appendix JA15.2.4.
05	Electrical A. 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: i. Heat Pump. Meet one of the following. A. 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. B. The electrical power required that meets the requirements specified for the heat pump in Joint Appendix JA15.2.5. ii. Temperature Maintenance Tank. Meet one of the following. A. 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. B. The electrical power required that meets the requirements specified for the temperature maintenance tank in Joint Appendix JA15.2.5.

ELECTRIC READY REQUIREMENTS

CALIFORNIA ENERGY COMMISSION

CEC-LMCI-ELC-01-E

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

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 either: a) a responsible person 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, or b) I am an authorized representative of the responsible person and attest to the declarations in this statement on the responsible person's behalf.
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 understand that a registered copy of this Certificate of Installation shall be posted or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to ensure this requirement is accomplished.
5. I understand that a registered copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to ensure this requirement is accomplished.

Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed:
Third Party Quality Control Program (TPQCP) Status:	Name of TPQCP (if applicable):	

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

LMCI-ELC-01-E User Instructions

A. General Information

1. Project Scope: User selects all that apply: Heat Pump Space Heater Ready, Electric Cooktop Ready, Electric Clothes Dryer Ready and None of these.

B. Heat Pump Space Heater Ready– Optional table based on user selection in cell A01:

C. Electric Cooktop Ready– Optional table based on user selection in cell A01.

D. Electric Clothes Dryer Ready – Systems serving Individual Dwelling Units– Optional table based on user selection in cell A01.

E. Electric Clothes Dryer Ready – Systems in Common Areas – Optional table based on user selection in cell A01.

F. Individual Heat Pump Water Heater Ready– Optional table based on user selection in cell A01.

G. Central Heat Pump Water Heater Ready– Optional table based on user selection in cell A01.

Documentation Declaration Statements

1. The person who prepared the LMCI 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.