

DOCKETED	
Docket Number:	23-HERS-01
Project Title:	2023 Repeal of the Field Verification and Diagnostic Testing requirements in Title 20
TN #:	252572
Document Title:	FVDT OAL Approval 2023-0828-01S
Description:	N/A
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Organization:	California Energy Commission
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Docketed Date:	10/11/2023

**State of California
Office of Administrative Law**

In re:
California Energy Commission

Regulatory Action:

Title 20, California Code of Regulations

Amend sections: 1670, 1671, 1672, 1673,
1674, 1675

NOTICE OF APPROVAL OF REGULATORY
ACTION

Government Code Section 11349.3

OAL Matter Number: 2023-0828-01

OAL Matter Type: Regular (S)

This action removes field verification and diagnostic testing regulations from Title 20.

OAL approves this regulatory action pursuant to section 11349.3 of the Government Code. This regulatory action becomes effective on 1/1/2024.

Date: October 9, 2023

A Mohandas

Ashita Mohandas
Attorney

For: Kenneth J. Pogue
Director

Original: Drew Bohan, Executive Director
Copy: Corrine Fishman

NOTICE PUBLICATION/REGULATIONS SUBMISSION

REGULAR

(See instructions on reverse)

For use by Secretary of State only

STD. 400 (REV. 10/2019)

OAL FILE NUMBERS	NOTICE FILE NUMBER Z-2023-0130-01	REGULATORY ACTION NUMBER 2023-0828-015	EMERGENCY NUMBER
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ENDORSED - FILED
In the office of the Secretary of State
of the State of California

OCT 09 2023
L. K. PHE

For use by Office of Administrative Law (OAL) only	
<p style="text-align: center;">OFFICE OF ADMIN. LAW 2023 AUG 28 PM 12:07</p>	
NOTICE	REGULATIONS

AGENCY WITH RULEMAKING AUTHORITY California Energy Commission	AGENCY FILE NUMBER (if any) 23-HERS-01
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A. PUBLICATION OF NOTICE (Complete for publication in Notice Register)

1. SUBJECT OF NOTICE Repeal Field Verification & Diagnostic Testing	TITLE(S) 20	FIRST SECTION AFFECTED 1670	2. REQUESTED PUBLICATION DATE February 10, 2023
3. NOTICE TYPE <input checked="" type="checkbox"/> Notice re Proposed Regulatory Action <input type="checkbox"/> Other	4. AGENCY CONTACT PERSON Corrine Fishman	TELEPHONE NUMBER (916) 805-7452	FAX NUMBER (Optional)
OAL USE ONLY <input type="checkbox"/> Approved as Submitted <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Disapproved/Withdrawn	NOTICE REGISTER NUMBER 2023, 6-2	PUBLICATION DATE 2/10/23	

B. SUBMISSION OF REGULATIONS (Complete when submitting regulations)

1a. SUBJECT OF REGULATION(S) Repeal Field Verification and Diagnostic Testing	1b. ALL PREVIOUS RELATED OAL REGULATORY ACTION NUMBER(S) N/A
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2. SPECIFY CALIFORNIA CODE OF REGULATIONS TITLE(S) AND SECTION(S) (Including title 26, if toxics related)
SECTION(S) AFFECTED (List all section number(s) individually. Attach additional sheet if needed.) ADAPT AMEND REPEAL Sections 1670, 1671, 1672, 1673, 1674 and 1675
TITLE(S) 20

3. TYPE OF FILING
<input checked="" type="checkbox"/> Regular Rulemaking (Gov. Code §11346) <input type="checkbox"/> Resubmittal of disapproved or withdrawn nonemergency filing (Gov. Code §§11349.3, 11349.4) <input type="checkbox"/> Emergency (Gov. Code, §11346.1(b)) <input type="checkbox"/> Certificate of Compliance: The agency officer named below certifies that this agency complied with the provisions of Gov. Code §§11346.2-11347.3 either before the emergency regulation was adopted or within the time period required by statute. <input type="checkbox"/> Resubmittal of disapproved or withdrawn emergency filing (Gov. Code, §11346.1) <input type="checkbox"/> Emergency Readopt (Gov. Code, §11346.1(h)) <input type="checkbox"/> File & Print <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Changes Without Regulatory Effect (Cal. Code Regs., title 1, §100) <input type="checkbox"/> Print Only

4. ALL BEGINNING AND ENDING DATES OF AVAILABILITY OF MODIFIED REGULATIONS AND/OR MATERIAL ADDED TO THE RULEMAKING FILE (Cal. Code Regs. title 1, §44 and Gov. Code §11347.1) June 1 - 16, 2023.
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5. EFFECTIVE DATE OF CHANGES (Gov. Code, §§ 11343.4, 11346.1(d); Cal. Code Regs., title 1, §100) <input checked="" type="checkbox"/> Effective January 1, April 1, July 1, or October 1 (Gov. Code §11343.4(a)) <input type="checkbox"/> Effective on filing with Secretary of State <input type="checkbox"/> \$100 Changes Without Regulatory Effect <input type="checkbox"/> Effective other (Specify)
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6. CHECK IF THESE REGULATIONS REQUIRE NOTICE TO, OR REVIEW, CONSULTATION, APPROVAL OR CONCURRENCE BY, ANOTHER AGENCY OR ENTITY <input type="checkbox"/> Department of Finance (Form STD. 399) (SAM §6660) <input type="checkbox"/> Fair Political Practices Commission <input type="checkbox"/> State Fire Marshal <input type="checkbox"/> Other (Specify)

7. CONTACT PERSON corrinefishman	TELEPHONE NUMBER (916) 805-7452	FAX NUMBER (Optional)	E-MAIL ADDRESS (Optional) corrine.fishman@energy.ca.gov
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8. I certify that the attached copy of the regulation(s) is a true and correct copy of the regulation(s) identified on this form, that the information specified on this form is true and correct, and that I am the head of the agency taking this action, or a designee of the head of the agency, and am authorized to make this certification.

SIGNATURE OF AGENCY HEAD OR DESIGNEE 	DATE 8-14-23
TYPED NAME AND TITLE OF SIGNATORY Drew Bohan, Executive Director	

For use by Office of Administrative Law (OAL) only

ENDORSED APPROVED

OCT 09 2023

Office of Administrative Law

NOTICE PUBLICATION/REGULATIONS SUBMISSION

STD. 400 (REV. 10/2019)(REVERSE)

**INSTRUCTIONS FOR PUBLICATION OF NOTICE
AND SUBMISSION OF REGULATIONS**

Use the form STD. 400 for submitting notices for publication and regulations for Office of Administrative Law (OAL) review.

ALL FILINGS

Enter the name of the agency with the rulemaking authority and agency's file number, if any.

NOTICES

Complete Part A when submitting a notice to OAL for publication in the California Regulatory Notice Register. Submit two (2) copies of the STD. 400 with four (4) copies of the notice and, if a notice of proposed regulatory action, one copy each of the complete text of the regulations and the statement of reasons. Upon receipt of the notice, OAL will place a number in the box marked "Notice File Number." If the notice is approved, OAL will return the STD. 400 with a copy of the notice and will check "Approved as Submitted" or "Approved as Modified." If the notice is disapproved or withdrawn, that will also be indicated in the space marked "Action on Proposed Notice." Please submit a new form STD. 400 when resubmitting the notice.

REGULATIONS

When submitting regulations to OAL for review, fill out STD. 400, Part B. Use the form that was previously submitted with the notice of proposed regulatory action which contains the "Notice File Number" assigned, or, if a new STD. 400 is used, please include the previously assigned number in the box marked "Notice File Number." In filling out Part B, be sure to complete the certification including the date signed, the title and typed name of the signatory. The following must be submitted when filing regulations: seven (7) copies of the regulations with a copy of the STD. 400 attached to the front of each (one copy must bear an original signature on the certification) and the complete rulemaking file with index and sworn statement. (See Gov. Code § 11347.3 for rulemaking file contents.)

RESUBMITTAL OF DISAPPROVED OR WITHDRAWN REGULATIONS

When resubmitting previously disapproved or withdrawn regulations to OAL for review, use a new STD. 400 and fill out Part B, including the signed certification. Enter the OAL file number(s) of all previously disapproved or withdrawn filings in the box marked "All Previous Related OAL Regulatory Action Number(s)" (box 1b. of Part B). Submit seven (7) copies of the regulation to OAL with a copy of the STD. 400 attached to the front of each (one copy must bear an original signature on the certification). Be sure to include an index, sworn statement, and (if returned to the agency) the complete rulemaking file. (See Gov. Code §§ 11349.4 and 11347.3 for more specific requirements.)

For questions regarding this form or the procedure for filing notices or submitting regulations to OAL for review, please contact the Office of Administrative Law Reference Attorney at (916) 323-6815.

EMERGENCY REGULATIONS

Fill out only Part B, including the signed certification, and submit seven (7) copies of the regulations with a copy of the STD. 400 attached to the front of each (one copy must bear an original signature on the certification). (See Gov. Code §11346.1 for other requirements.)

NOTICE FOLLOWING EMERGENCY ACTION

When submitting a notice of proposed regulatory action after an emergency filing, use a new STD. 400 and complete Part A and insert the OAL file number(s) for the original emergency filing(s) in the box marked "All Previous Related OAL Regulatory Action Number(s)" (box 1b. of Part B). OAL will return the STD. 400 with the notice upon approval or disapproval. If the notice is disapproved, please fill out a new form when resubmitting for publication.

CERTIFICATE OF COMPLIANCE

When filing the certificate of compliance for emergency regulations, fill out Part B, including the signed certification, on the form that was previously submitted with the notice. If a new STD. 400 is used, fill in Part B including the signed certification, and enter the previously assigned notice file number in the box marked "Notice File Number" at the top of the form. The materials indicated in these instructions for "REGULATIONS" must also be submitted.

EMERGENCY REGULATIONS - READOPTION

When submitting previously approved emergency regulations for re adoption, use a new STD. 400 and fill out Part B, including the signed certification, and insert the OAL file number(s) related to the original emergency filing in the box marked "All Previous Related OAL Regulatory Action Number(s)" (box 1b. of Part B).

CHANGES WITHOUT REGULATORY EFFECT

When submitting changes without regulatory effect pursuant to California Code of Regulations, Title 1, section 100, complete Part B, including marking the appropriate box in both B.3. and B.5.

ABBREVIATIONS

Cal. Code Regs. - California Code of Regulations
Gov. Code - Government Code
SAM - State Administrative Manual

**California Code of Regulations
Title 20. Public Utilities and Energy
Division 2. State Energy Resources Conservation and Development Commission
Chapter 4. Energy Conservation
Article 8. California Home Energy Rating System Program
Sections 1670-1675**

Section 1670. Scope [Operative from January 1, 2024, until the date 24 CCR 10-103.3 becomes effective]

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

These regulations establish the California Home Energy Rating System (herein referred to as HERS) Program pursuant to Public Resources Code Section 25942, including procedures for the training and certification of Raters, and a certification program for home energy rating system organizations (herein referred to as Providers) and for home energy rating services (herein referred to as Rating Systems). The HERS Technical Manual, Publication CEC-400-2008-012, December 2008, which is defined below, shall be incorporated by reference.

The California HERS Program regulations apply to the use of HERS Raters to provide two key services:

- (i) Field verification and diagnostic testing as required by Title 24, Part 6.
- (ii) Whole-House Home Energy Ratings of newly constructed and existing homes.

NOTE: In the course of providing a California Whole-House Home Energy Rating, a home energy audit is performed. The California HERS Program includes the case where the energy audit portion of the rating process is completed but a California Whole-House Home Energy Rating score is not designated. When describing that case, these regulations refer to that portion of the rating process as a California Home Energy Audit.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1670. Scope [Operative on and after the effective date of 24 CCR 10-103.3]

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

(a) These regulations establish the California Home Energy Rating System (herein referred to as HERS) Program pursuant to Public Resources Code Section 25942, including procedures for the training and certification of Raters, and a certification program for home energy rating system organizations (herein referred to as Providers) and for home energy rating services (herein referred to as Rating Systems). The HERS Technical Manual, Publication CEC-400-2008-012, December 2008, which is defined below, shall be incorporated by reference.

(b) The California HERS Program regulations apply to the use of HERS Raters to provide Whole-House Home Energy Ratings of newly constructed and existing homes.

(c) In the course of providing a California Whole-House Home Energy Rating, a home energy audit is performed. The California HERS Program includes the case where the energy audit portion of the rating process is completed but a California Whole-House Home Energy Rating score is not designated. When describing that case, these regulations refer to that portion of the rating process as a California Home Energy Audit.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1671. Definitions [Operative from January 1, 2024, until the date 24 CCR 10-103.3 becomes effective]

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

For the purposes of these regulations, the following definitions shall apply:

ACM Manual means the Low-Rise Residential Alternative Calculation Method Approval Manual (Energy Commission Publication CEC-400-2008-002) adopted in Section 10-109(b)(2) of Title 24, Part 1 of the California Code of Regulations.

Building Performance Contractor means a contractor who is certified by a Provider to evaluate the comfort and safety aspects of a home in conjunction with its energy features and its energy consumption in a holistic manner to determine recommendations for the best overall performance of a home for the occupant or owner, and is licensed by the California Contractors State License Board as a current and active eClass B general building contractor. Either the qualifying individual for the eClass B license or the employee who is directly responsible to the qualifying individual for the eClass B license for rating services, audit services, and related construction work is certified as a California Whole-House Home Energy Rater by an Energy Commission-approved Building Performance Contractor program as specified in Section 1674(e).

California Field Verification and Diagnostic Testing Rater means a Rater who has been trained, tested, and certified by a Provider to perform field verification and diagnostic testing of newly constructed homes or alterations to existing homes to verify compliance with the requirements of Title 24, Part 6.

California Home Energy Analyst means a person who works under the direct supervision of a California Whole-House Home Energy Rater and has been trained, tested, and certified by a

Provider in accordance with the requirements of Section 1673(a) to perform analysis for a Whole-House Home Energy Rating using an Energy Commission-approved HERS rating software program.

California Home Energy Audit means a process to determine the energy savings and cost-effectiveness of specific measures together with an evaluation of the energy uses listed in Section 1672(d) and a report to present the information used to evaluate the measures and make recommendations for the inclusion of such measures into the home. An audit need not include a Whole-House Home Energy Rating score.

California Home Energy Auditor means a person who has been trained, tested, and certified by a Provider as a California Whole-House Home Energy Rater to provide the information for a California Home Energy Audit.

California Home Energy Inspector means a home inspector who has also been trained, tested, and certified by a Provider and who works under the direct supervision of a California Whole-House Home Energy Rater to gather the data specified in the HERS Technical Manual to enable the development of a California Whole-House Home Energy Rating.

California Whole-House Home Energy Rater means a person who has been trained, tested, and certified by a Provider to properly gather information on the energy consuming features of a home, perform diagnostic testing at the home, evaluate the validity of that information, simulate and perform analysis for a California Whole-House Home Energy Rating or a California Home Energy Audit using an Energy Commission-approved HERS rating software program to estimate the energy consumption of a home using the information gathered on site, and complete all of the cost-effectiveness evaluations described in the HERS Technical Manual.

California Whole-House Home Energy Rating means a process to determine a California Whole-House Home Energy Rating score representing the relative energy efficiency of a newly constructed or existing residential building as compared to the Reference Home.

Certified, as to a Provider and Rating System, means having successfully completed the certification requirements as specified by Section 1674.

Energy Commission means the State of California Energy Resources Conservation and Development Commission, commonly known as the California Energy Commission.

Energy-Rated Home means a newly constructed or existing residential building that has an energy rating pursuant to these regulations.

Executive Director means the Executive Director of the Energy Commission.

Financial Interest means an ownership interest, debt agreement, or employer/employee relationship. Financial interest does not include ownership of less than five percent of the outstanding equity securities of a publicly traded corporation.

HERS Technical Manual or HTM means the HERS Technical Manual, Energy Commission Publication CEC-400-2008-012 (May 2009), and is incorporated by reference.

Independent Entity means having no financial interest in, and not advocating or recommending the use of any product or service as a means of gaining increased business with, firms or persons specified in Section 1673(j).

Note: The definitions of "independent entity" and "financial interest," together with Section 1673(j), prohibit conflicts of interest between Providers and Raters, or between Providers/Raters and builders/subcontractors.

Net Zero Energy Home means a home that has a net annual Time Dependent Valued (TDV) Energy consumption of zero, accounting for both energy consumption and the use of on-site renewable energy production.

Provider means an organization that administers a home energy rating system in compliance with these regulations (referred to as a "home energy rating service organization" in Section 25942 of the Public Resources Code).

Rater means a person who has been trained, tested, and certified by a Provider to perform one or more of the functions or procedures used to develop a California Whole-House Home Energy Rating, or a California Home Energy Audit, or the field verification and diagnostic testing required for demonstrating compliance with the Title 24, Part 6, Building Energy Efficiency Standards, and who is listed on a Provider's registry in compliance with Section 1673(d).

Rating means a California Whole-House Home Energy Rating, or a California Home Energy Audit, or the field verification and diagnostic testing required for verifying compliance with the Title 24, Part 6, Building Energy Efficiency Standards, as specified by these regulations.

Rating System means the materials, analytical tools, diagnostic tools and procedures to produce home energy ratings, and provide home energy rating and field verification and diagnostic testing services (referred to as "home energy rating services" in Section 25942 of the Public Resources Code).

Reference Home means a low-rise residential building similar to the rated house, but for which the energy performance characteristics of each component exactly meet the reference house specifications defined in the HERS Technical Manual.

Service Water Heating means service water heating as defined in Section 101(b) of Title 24, Part 6 of the California Code of Regulations.

Time Dependent Valued (TDV) Energy means the time varying energy used by the building to determine the home energy rating pursuant to these regulations. TDV Energy accounts for the energy used at the building site and consumed in producing and delivering energy to a site, including, but not limited to, power generation, and transmission and distribution losses.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code

Section 1671. Definitions [Operative on and after the effective date of 24 CCR 10-103.3]

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

For the purposes of these regulations, the following definitions shall apply:

Building Performance Contractor means a contractor who is certified by a Provider to evaluate the comfort and safety aspects of a home in conjunction with its energy features and its energy consumption in a holistic manner to determine recommendations for the best overall performance of a home for the occupant or owner, and is licensed by the California Contractors State License Board as a current and active Class B general building contractor. Either the qualifying individual for the Class B license or the employee who is directly responsible to the qualifying individual for the Class B license for rating services, audit services, and related construction work is certified as a California Whole-House Home Energy Rater by an Energy Commission-approved Building Performance Contractor program as specified in Section 1674(e).

California Home Energy Analyst means a person who works under the direct supervision of a California Whole-House Home Energy Rater and has been trained, tested, and certified by a Provider in accordance with the requirements of Section 1673(a) to perform analysis for a Whole-House Home Energy Rating using an Energy Commission-approved HERS rating software program.

California Home Energy Audit means a process to determine the energy savings and cost-effectiveness of specific measures together with an evaluation of the energy uses listed in Section 1672(d) and a report to present the information used to evaluate the measures and make recommendations for the inclusion of such measures into the home. An audit need not include a Whole-House Home Energy Rating score.

California Home Energy Auditor means a person who has been trained, tested, and certified by a Provider as a California Whole-House Home Energy Rater to provide the information for a California Home Energy Audit.

California Home Energy Inspector means a home inspector who has also been trained, tested, and certified by a Provider and who works under the direct supervision of a California Whole-House Home Energy Rater to gather the data specified in the HERS Technical Manual to enable the development of a California Whole-House Home Energy Rating.

California Whole-House Home Energy Rater means a person who has been trained, tested, and certified by a Provider to properly gather information on the energy consuming features of a home, perform diagnostic testing at the home, evaluate the validity of that information, simulate and perform analysis for a California Whole-House Home Energy Rating or a California Home Energy Audit using an Energy Commission-approved HERS rating software program to estimate the energy consumption of a home using the information gathered on site, and complete all of the cost-effectiveness evaluations described in the HERS Technical Manual.

California Whole-House Home Energy Rating means a process to determine a California Whole-House Home Energy Rating score representing the relative energy efficiency of a newly constructed or existing residential building as compared to the Reference Home.

Certified, as to a Provider and Rating System, means having successfully completed the certification requirements as specified by Section 1674.

Energy Commission means the State of California Energy Resources Conservation and Development Commission, commonly known as the California Energy Commission.

Energy-Rated Home means a newly constructed or existing residential building that has an energy rating pursuant to these regulations.

Executive Director means the Executive Director of the Energy Commission.

Financial Interest means an ownership interest, debt agreement, or employer/employee relationship. Financial interest does not include ownership of less than five percent of the outstanding equity securities of a publicly traded corporation.

HERS Technical Manual or HTM means the HERS Technical Manual, Energy Commission Publication CEC-400-2008-012 (May 2009), and is incorporated by reference.

Independent Entity means having no financial interest in, and not advocating or recommending the use of any product or service as a means of gaining increased business with, firms or persons specified in Section 1673(i).

Note: The definitions of "independent entity" and "financial interest," together with Section 1673(i) prohibit conflicts of interest between Providers and Raters, or between Providers/Raters and builders/subcontractors.

Net Zero Energy Home means a home that has a net annual Time Dependent Valued (TDV) Energy consumption of zero, accounting for both energy consumption and the use of on-site renewable energy production.

Provider means an organization that administers a home energy rating system in compliance with these regulations (referred to as a "home energy rating service organization" in Section 25942 of the Public Resources Code).

Rater means a person who has been trained, tested, and certified by a Provider to perform one or more of the functions or procedures used to develop a California Whole-House Home Energy Rating or a California Home Energy Audit, and who is listed on a Provider's registry in compliance with Section 1673(d).

Rating means a California Whole-House Home Energy Rating or a California Home Energy Audit, as specified by these regulations.

Rating System means the materials, analytical tools, diagnostic tools and procedures to produce home energy ratings, and provide home energy rating (referred to as "home energy rating services" in Section 25942 of the Public Resources Code).

Reference Home means a low-rise residential building similar to the rated house, but for which the energy performance characteristics of each component exactly meet the reference house specifications defined in the HERS Technical Manual.

Time Dependent Valued (TDV) Energy means the time varying energy used by the building to determine the home energy rating pursuant to these regulations. TDV Energy accounts for the energy used at the building site and consumed in producing and delivering energy to a site, including, but not limited to, power generation, and transmission and distribution losses.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1672. Requirements for Rating Systems [Operative from January 1, 2024, until the date 24 CCR 10-103.3 becomes effective]

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

(a) California Whole-House Home Energy Rating or California Home Energy Audit. A California Whole-House Home Energy Rating or a California Home Energy Audit shall be completed for a home only if the rating or the audit is completed as specified by these regulations and the HERS Technical Manual.

(b) Data Collection.

(1) For ratings of existing homes that produce a California Whole-House Home Energy Rating or a California Home Energy Audit, each rating shall be based on a site inspection of the home that includes data collection and diagnostic testing as specified by the Rating System in conformance with these regulations and the HERS Technical Manual. Each Rating System shall have documented procedures for site inspection and diagnostic testing of Energy-Rated Homes.

(A) The data collection shall be completed by a California Whole-House Home Energy Rater or by a California Home Energy Inspector directly supervised by a California Whole-House Home Energy Rater.

(B) The types and the details of data pursuant to each level of Rater certification shall be collected as specified in the HERS Technical Manual.

(C) The minimum level of data collection for a California Whole-House Home Energy Rating or a California Home Energy Audit shall meet the specifications in the HERS Technical Manual.

(2) For ratings of newly constructed homes that produce a California Whole-House Home Energy Rating, each rating shall be based on data gathered from construction documents as specified in the procedures outlined in the HERS Technical Manual and verified or tested on-site by a California Whole-House Home Energy Rater. California Whole-House Home Energy Ratings may be produced based on sampling of one house out of a group of seven as long as all of the houses in the group have the same energy efficiency and on-site generation measures. These ratings may be produced using the multiple orientation approach specified in the Title 24, Part 6, Building Energy Efficiency Standards. Procedures for initial testing, sampling, resampling, and corrective action specified in the Residential Appendices to Title 24, Part 6, shall be followed.

(3) For ratings of newly constructed homes to establish compliance with Title 24, Part 6, through field verification and diagnostic testing, data shall be collected or specified by the Residential Appendices to Title 24, Part 6. A Rater who collects such data and performs such diagnostic tests shall be certified by the Provider as a California Field Verification and Diagnostic Testing Rater.

(c) Data Analysis Requirements. The analysis to complete a California Whole-House Home Energy Rating or a California Home Energy Audit shall be conducted by either a California Whole-House Home Energy Rater or a California Home Energy Analyst under the direct supervision of a California Whole-House Home Energy Rater.

(d) Energy Uses Rated. Each Rating System shall rate the total combined energy efficiency of the following energy uses of each home rated:

(1) Space heating.

(2) Space cooling.

(3) Service hot water.

(4) Lighting in conditioned space.

(5) Exterior lighting mounted on buildings or lighting in an unconditioned garage.

(6) Electric appliances.

(7) Gas appliances.

(8) Other interior electric and natural gas uses specified in the HERS Technical Manual.

(e) On-site Renewable Generation. If a home has on-site renewable generation whose energy production is modeled as specified in the HERS Technical Manual, two ratings shall be determined, one that rates the house with the on-site generation included in the energy calculations and one that rates the home without considering the on-site generation.

(f) Rating Scale. Each Rating System shall determine a California Whole-House Home Energy Rating score based on the annual TDV Energy of a home on a linear scale where 0 (zero) represents a Net Zero Energy Home and 100 represents the Reference Home. An Energy-Rated Home that uses more energy than the Reference Home shall have a rating of greater than 100. The rating shall be for the combined total of the energy uses specified in Section 1672(d).

(g) Method of Calculating TDV Energy. An hourly energy simulation program approved by the Energy Commission shall be used to calculate the TDV Energy of the Energy-Rated Home and the Reference Home for the purpose of calculating the rating. The method shall use standard weather files for the California climate zones and other modeling rules, procedures, and assumptions as specified in the HERS Technical Manual.

(h) Utility Bill Analysis. Every California Whole-House Home Energy Rating or California Home Energy Audit, where utility bills are available for a period of at least twelve months, shall include a utility bill analysis as specified in the HERS Technical Manual.

(i) Recommendations for Energy Efficiency Improvements. Every California Whole-House Home Energy Rating or California Home Energy Audit shall include a list of cost-effective improvements to the energy efficiency of the home as specified in the HERS Technical Manual.

(j) Greenhouse Gas Emissions. Each California Whole-House Home Energy Rating or California Home Energy Audit shall include an estimate of the carbon dioxide emissions attributable to the projected energy use of a home as specified in the HERS Technical Manual.

(k) HERS Report. The information specified in Sections 1672(a) through (j) shall be presented to the client in the form of a HERS Report for either a California Whole-House Home Energy Rating or a California Home Energy Audit as specified in the HERS Technical Manual.

(l) Field Verification and Diagnostic Testing. The Provider and Rater shall provide field verification and diagnostic testing of energy efficiency improvements as a condition for those improvements to qualify for the Title 24, Part 6, Building Energy Efficiency Standards compliance credit, as required by the Title 24, Part 6, Building Energy Efficiency Standards and Reference Appendices.

(m) Provider and Rater Conduct and Responsibility. Providers and Raters shall not knowingly provide untrue, inaccurate, or incomplete rating information or report rating results that were not conducted in compliance with these regulations. Providers and Raters shall not knowingly accept payment or other consideration in exchange for reporting a rating result that was not in fact conducted and reported in compliance with these regulations.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1672. Requirements for Rating Systems [Operative on and after the effective date of 24 CCR 10-103.3]

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

(a) California Whole-House Home Energy Rating or California Home Energy Audit. A California Whole-House Home Energy Rating or a California Home Energy Audit shall be completed for a home only if the rating or the audit is completed as specified by these regulations and the HERS Technical Manual.

(b) Data Collection.

(1) For ratings of existing homes that produce a California Whole-House Home Energy Rating or a California Home Energy Audit, each rating shall be based on a site inspection of the home that includes data collection and diagnostic testing as specified by the Rating System in conformance with these regulations and the HERS Technical Manual. Each Rating System shall have documented procedures for site inspection and diagnostic testing of Energy-Rated Homes.

(A) The data collection shall be completed by a California Whole-House Home Energy Rater or by a California Home Energy Inspector directly supervised by a California Whole-House Home Energy Rater.

(B) The types and the details of data pursuant to each level of Rater certification shall be collected as specified in the HERS Technical Manual.

(C) The minimum level of data collection for a California Whole-House Home Energy Rating or a California Home Energy Audit shall meet the specifications in the HERS Technical Manual.

(2) For ratings of newly constructed homes that produce a California Whole-House Home Energy Rating, each rating shall be based on data gathered from construction documents as specified in the procedures outlined in the HERS Technical Manual and verified or tested on-site by a California Whole-House Home Energy Rater. California Whole-House Home Energy

Ratings may be produced based on sampling of one house out of a group of seven as long as all of the houses in the group have the same energy efficiency and on-site generation measures. These ratings may be produced using the multiple orientation approach specified in the Title 24, Part 6, Building Energy Efficiency Standards. Procedures for initial testing, sampling, resampling, and corrective action specified in the Residential Appendices to Title 24, Part 6, shall be followed.

(c) Data Analysis Requirements. The analysis to complete a California Whole-House Home Energy Rating or a California Home Energy Audit shall be conducted by either a California Whole-House Home Energy Rater or a California Home Energy Analyst under the direct supervision of a California Whole-House Home Energy Rater.

(d) Energy Uses Rated. Each Rating System shall rate the total combined energy efficiency of the following energy uses of each home rated:

(1) Space heating.

(2) Space cooling.

(3) Service hot water.

(4) Lighting in conditioned space.

(5) Exterior lighting mounted on buildings or lighting in an unconditioned garage.

(6) Electric appliances.

(7) Gas appliances.

(8) Other interior electric and natural gas uses specified in the HERS Technical Manual.

(e) On-Site Renewable Generation. If a home has on-site renewable generation whose energy production is modeled as specified in the HERS Technical Manual, two ratings shall be determined, one that rates the house with the on-site generation included in the energy calculations and one that rates the home without considering the on-site generation.

(f) Rating Scale. Each Rating System shall determine a California Whole-House Home Energy Rating score based on the annual TDV Energy of a home on a linear scale where 0 (zero) represents a Net Zero Energy Home and 100 represents the Reference Home. An Energy-Rated Home that uses more energy than the Reference Home shall have a rating of greater than 100. The rating shall be for the combined total of the energy uses specified in Section 1672(d).

(g) Method of Calculating TDV Energy. An hourly energy simulation program approved by the Energy Commission shall be used to calculate the TDV Energy of the Energy-Rated Home and the Reference Home for the purpose of calculating the rating. The method shall use standard weather files for the California climate zones and other modeling rules, procedures, and assumptions as specified in the HERS Technical Manual.

(h) Utility Bill Analysis. Every California Whole-House Home Energy Rating or California Home Energy Audit, where utility bills are available for a period of at least twelve months, shall include a utility bill analysis as specified in the HERS Technical Manual.

(i) Recommendations for Energy Efficiency Improvements. Every California Whole-House Home Energy Rating or California Home Energy Audit shall include a list of cost-effective

improvements to the energy efficiency of the home as specified in the HERS Technical Manual.

(j) Greenhouse Gas Emissions. Each California Whole-House Home Energy Rating or California Home Energy Audit shall include an estimate of the carbon dioxide emissions attributable to the projected energy use of a home as specified in the HERS Technical Manual.

(k) HERS Report. The information specified in Sections 1672(a) through (j) shall be presented to the client in the form of a HERS Report for either a California Whole-House Home Energy Rating or a California Home Energy Audit as specified in the HERS Technical Manual.

(l) Provider and Rater Conduct and Responsibility. Providers and Raters shall not knowingly provide untrue, inaccurate, or incomplete rating information or report rating results that were not conducted in compliance with these regulations. Providers and Raters shall not knowingly accept payment or other consideration in exchange for reporting a rating result that was not in fact conducted and reported in compliance with these regulations.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1673. Requirements for Providers [Operative from January 1, 2024, until the date 24 CCR 10-103.3 becomes effective]

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

(a) Training and Certification Procedures for Raters. Each Provider shall conduct the following Rater training and certification procedures.

(1) Each Provider's training program shall include classroom and field training of applicants for California Whole-House Home Energy Rater certifications, incorporating training in analysis, theory, and practical application in at least the following areas:

(A) Home energy consumption and efficiency data collection, organization and analysis.

(B) Principles of heat transfer.

(C) Building energy feature design and construction practice, including construction quality assurance, on-site renewable generation, and "house as a system" concepts.

(D) Safety practices relevant to home energy auditing procedures and equipment.

(E) Home energy audit procedures.

(F) Energy efficiency effects of building site characteristics.

(G) Types and characteristics of space heating, space cooling, service hot water, and hard wired lighting systems.

(H) Mathematical calculations necessary to utilize the Rating System.

(I) The modeling and use of Energy Commission-approved HERS software required to produce a California Whole-House Home Energy Rating or a California Home Energy Audit

and the associated California Home Energy Rating Certificate, California Home Energy Audit Certificate and HERS Report in accordance with the algorithms, procedures, methods, assumptions, and defaults specified in the HERS Technical Manual.

(J) Methods of cost-effectiveness analysis including interest and discount rates, cost-benefit ratios, life cycle cost analysis, calculation of present value, cash flow analysis, payback analysis, and cost estimation.

(K) The function and proper use of diagnostic devices including but not necessarily limited to: duct leakage testing equipment, blower doors, and air flow and pressure measurement devices.

(L) Construction types, equipment types, and their associated energy efficiency ramifications.

(M) Field verification and diagnostic testing requirements of the Title 24, Part 6, Building Energy Efficiency Standards and the Reference Appendices.

(N) Interpretation of prioritized recommendations for efficiency improvements and customized adjustment procedures for specific occupants.

(O) The behavioral, psychological, cultural, and socioeconomic influences on energy consumption of home occupants in the United States and California.

(P) California Home Energy Rating System Program requirements specified in these regulations.

(2) California Home Energy Inspector applicants shall not be required to be trained by the Provider in areas indicated in Sections 1673(a)(1)(H), (I), (J), (K), (M), (N) and (O) but shall be required to receive specific training in the areas indicated in Sections 1673(a)(1)(A) through (G) and general training in Sections 1673(a)(1)(L) and (P).

(3) California Home Energy Analysts applicants shall not be required to be trained by the Provider in Sections 1673(a)(1)(D) and (K) but shall be required to receive specific training in Sections 1673(a)(1)(G), (H), (I), and (J) and general training in Sections 1673(a)(1)(A) to (C), (E), (F), and (L) to (P).

(4) California Field Verification and Diagnostic Testing Raters shall not be required to be trained by the Provider in the areas indicated in Sections 1673(a)(1)(I), (J), (N), and (O) but shall be required to receive specific training in Sections 1673(a)(1)(H) and (K) through (M) and general training in Sections 1673(a)(1)(A) to (G) and (P).

(5) The training for all certifications and Raters shall include thorough instruction in using the Provider's Rating System and database.

(6) The training shall require California Whole-House Home Energy Rater applicants to satisfactorily perform a rating for at least one home that includes field verification and diagnostic testing in the presence and under the direct supervision of the Provider's trainer or Quality Assurance Reviewer. The training shall require California Field Verification and Diagnostic Testing Rater applicants to satisfactorily perform field verification and diagnostic testing for at least one home in the presence and under the direct supervision of the Provider's trainer or Quality Assurance Reviewer. The Provider shall review and approve these ratings for accuracy and completeness.

(7) The Provider shall require each applicant to take an Energy Commission-approved written and practical test that demonstrates their competence in all subjects specified in Section 1673(a)(1). The Provider shall retain all results of these tests for five years from the date of the test.

(8) Each Provider may establish an Energy Commission-approved challenge test that evaluates competence in each area addressed by the Provider's training program. If a Rater applicant successfully passes this challenge test, the Provider may waive the classroom training requirement and the written and practical test requirements for that applicant. An applicant who passes this challenge test shall also successfully meet the requirements specified in Section 1673(a)(6).

(9) Programs incorporating Building Performance Contractors shall provide specific training in all areas specified in Section 1673(a)(1). These programs shall be submitted by the Provider for individual review and approval by the Energy Commission.

(b) Rater Agreements. As a condition of Rater registry under Section 1673(d), each Provider shall ensure that a Rater applicant who has met the applicable requirements of Section 1673(a) has entered into an agreement with the Provider to provide home energy rating and field verification and diagnostic services in compliance with these regulations. The agreement shall require Raters to:

(1) Provide home energy rating and field verification services in compliance with these regulations.

(2) Provide true, accurate, and complete data collection, analysis, and ratings, and field verification and diagnostic testing.

(3) Not accept payment or consideration in exchange for reporting data gathered for a rating, analytical results used for a rating, or a rating result that was not in fact conducted and reported in compliance with these regulations.

(4) Comply with the conflict of interest requirements as specified in Section 1673(j).

(c) Building Performance Contractor Agreements. To be certified and registered as a Building Performance Contractor, a Provider shall ensure that a Building Performance Contractor applicant has entered into an agreement with the Provider to provide home energy rating services in compliance with these regulations. The agreement shall require Building Performance Contractors to:

(1) Be current and active licensed eClass B general building contractors and agree to abide by the laws and regulations of the California Contractors State License Board, including, but not limited to, complying with advertising requirements, home improvement contract requirements, and use of properly licensed subcontractors.

(2) Provide home energy rating services in compliance with these regulations.

(3) Provide home energy rating services under these regulations only with Raters certified under an Energy Commission-approved Building Performance Contractor program pursuant to Section 1674(e).

(4) Comply with requirements for the issuance of building permits, state and local building codes, and the other requirements of Section 7110 of the Contractor's License Law (Business and Professions Code).

(5) Notify the Provider of any citation, suspension, or revocation actions by the California Contractors State License Board against the contractor.

(d) Rater and Building Performance Contractor Registry. As a condition of Rater registry, each Provider shall certify to the Energy Commission that a Rater applicant has met the requirements of Section 1673(a) and entered into an agreement meeting the requirements of Section 1673(b). As a condition of Building Performance Contractor registry, each Provider shall certify to the Energy Commission that the applicant has met the definition of a Building Performance Contractor and entered into an agreement meeting the requirements of Section 1673(c). The Provider shall maintain a registry of all Raters, persons, or firms that meet these requirements, provide an electronic copy of the registry to the Energy Commission, and make that registry available in printed or electronic form upon written request.

(e) Data Maintenance.

(1) Each Provider shall record and maintain for a period of ten years all data collected for a rating if the data is listed as a required or optional input for the rating in question. This requirement shall apply to data collected from a site visit, from the plans for a newly constructed building, or from a utility bill analysis. All required or optional outputs generated for a rating shall also be recorded.

(2) For homes that have received a field verification rating, the following information shall also be collected and maintained for ten years and may be in an electronic format:

(A) The energy efficiency improvements field verified and diagnostically tested.

(B) Whether or not the builder chose to include the home in a sample for field verification and diagnostic testing as specified in the Residential Appendices to Title 24, Part 6.

(C) Whether or not initial field verification and diagnostic testing as specified in the Residential Appendices to Title 24, Part 6, was conducted on the home.

(D) Whether or not the home in a sample was actually selected and field verified and diagnostically tested as specified in the Residential Appendices to Title 24, Part 6.

(E) Whether or not the home in a sample was actually selected for resampling and field verified and diagnostically tested after a sampling failure was found in the sample as specified in the Residential Appendices to Title 24, Part 6.

(F) Whether or not the home in a sample was field verified and diagnostically tested and corrective action was taken after a resampling failure was found in the sample as specified in the Residential Appendices to Title 24, Part 6.

(G) Whether or not the homeowner declined to have field verification, diagnostic testing, and corrective action taken after occupancy as specified in the Residential Appendices to Title 24, Part 6.

(H) The Certificate of Compliance, the Installation Certificate, and the Certificate of Field Verification and Diagnostic Testing.

(f) Field Verification and Diagnostic Testing Evaluation. Providers shall maintain a database of the information specified in Section 1673(e)(2) for a minimum 10 percent random sample of the homes actually field verified and diagnostically tested annually, or 500 such homes annually, whichever is less. Each Provider shall provide this information annually in electronic form to the Energy Commission for evaluating the effectiveness of field verification and diagnostic testing. If the Energy Commission makes this information public, it will be in aggregated form only. All of this information shall be organized according to climate zones as defined in Section 101(b) of Title 24, Part 6 of the California Code of Regulations.

(g) Data Submittal. Upon the Energy Commission's request, but not more frequently than annually, a Provider shall submit to the Energy Commission information recorded pursuant to Section 1673(e) and provide the Energy Commission ongoing access to the Provider's database. If the Energy Commission makes this information public, it will be in an aggregated form only.

(h) Training Materials Retention. Each Provider shall retain for at least five years after the last date they are used, at least one copy of all materials used to train Raters.

(i) Quality Assurance. Each Provider shall have a quality assurance program that provides for at least the following:

(1) Quality Assurance Staff. The Provider shall have a designated Quality Assurance Manager to oversee the quality assurance process. The Quality Assurance Manager shall appoint as many Quality Assurance Reviewers as necessary to assist with the completion of the tasks outlined in this Subsection 1673(i). The qualifications of the Quality Assurance Manager and the Quality Assurance Reviewers shall be submitted to the Energy Commission.

(2) Initial Review. The Provider shall review and approve for accuracy and completeness the rating documentation for at least the first five homes which a Rater performs after completion of the requirements specified in Section 1673(a)(1) through Section 1673(a)(6), not including those homes rated under the Provider's direct supervision as specified in Section 1673(a)(6).

(3) Quality Assurance for California Whole-House Home Energy Raters and California Field Verification and Diagnostic Testing Raters.

(A) For each Rater, the Provider shall annually evaluate the greater of one rating, randomly selected or one percent of the Rater's past 12 month's total number of ratings (rounded up to the nearest whole number) for each measure tested by the Rater. For Raters that have had at least one quality assurance evaluation for any measure in the past 12 months, this evaluation shall only be required to be done for those measures that have been tested by the Rater at least 10 times in the past 18 months. The Provider shall independently repeat the rating to check whether the rating was accurately completed by the Rater, and determine whether information was completely collected and reported. The Provider also shall conduct the same check on one percent of all ratings conducted through the Provider, selected randomly from the Provider's entire pool of ratings on an ongoing basis. For Energy-Rated Homes using the Building Performance Contractor exception to Section 1673(j)(3), at least five percent of the Energy-Rated Homes shall be evaluated by a Quality Assurance Reviewer.

(B) Raters shall not be informed that a building or installation will be field checked until after they have completed the original rating. The field check shall occur after the submission of the

Certificate of Field Verification and Diagnostic Testing for a field verification rating and after the distribution of the HERS Report for a home energy rating.

(C) These evaluations by the Provider's Quality Assurance personnel shall be documented in the Provider's database and include the results of all testing performed by the Provider's Quality Assurance personnel. If the Provider's Quality Assurance personnel determine that the Rater's results did not meet the criteria for truth, accuracy, or completeness of these regulations, then the Provider shall report the quality assurance failure on the Provider's Rater registry and Building Performance Contractor registry websites for a period of six months. In addition, the Provider's Quality Assurance personnel shall evaluate two additional ratings of the failed measure by the same Rater performed in the past 12 months. If a second deficiency is found, then the Rater shall have two percent (rounded up to the nearest whole number) of their ratings of the failed measure evaluated for the next 12 months by all Providers. The Provider's Quality Assurance Manager shall notify other Providers in writing or by electronic mail of Raters that are required to have additional quality assurance verification as required by this provision.

(4) Additional Quality Assurance for Unrated or Untested Buildings or Installations.

(A) For houses or installations passed as part of a sampling group but not specifically field verified or rated by a Rater, the greater of one house or installation or one percent of all unrated or untested buildings or installations in groups sampled by the Rater shall be independently rated or field verified by the Provider's Quality Assurance personnel.

(B) These quality assurance verifications shall be blind tests in that the Provider shall not inform the installer, builder, or the Rater that the specific building or installation will be verified.

(C) The results of these quality assurance verifications shall be entered into the Provider's database. The Provider shall summarize the results of these quality assurance verifications and submit them to the Energy Commission on an annual basis and provide the Energy Commission with ongoing access to the database and associated summaries of the results of these verifications.

(5) Complaint Response System. Each Provider shall have a system for receiving complaints. The Provider shall respond to and resolve complaints related to ratings and field verification and diagnostic testing services and reports. Providers shall ensure that Raters inform purchasers and recipients of ratings and field verifications and diagnostic testing services about the complaint system. Each Provider shall retain all records of complaints received and responses to complaints for five years after the date the complaint is presented to the Provider and annually report a summary of all complaints and action taken to the Executive Director.

(j) Conflict of Interest.

(1) Providers shall be independent entities from Raters.

(2) Providers and Raters shall be independent entities from the builder and from the subcontractor installer of energy efficiency improvements field verified or diagnostically tested.

(3) Providers and Raters shall be independent entities from any firm or person that performs work on the home for a California Home Energy Audit or a California Whole-House Home Energy Rating. EXCEPTION to Section 1673(j)(3): California Whole-House Home Energy Raters, who are working as or for a Building Performance Contractor certified under an Energy

Commission-approved Building Performance Contractor program as part of a Provider's Rating System as specified in Section 1674(e) of the regulations and in the HERS Technical Manual, shall not be required to be an independent entity from the person(s) or firm(s) performing the work on a home. This exception shall not apply to California Field Verification and Diagnostic Testing Raters performing field verification and diagnostic testing of newly constructed homes or alterations to existing homes to verify compliance with the requirements of Title 24, Part 6.

(k) Improvement Measures Cost Database. Each Provider shall develop and maintain a database of the cost of implementing the efficiency improvement measures specified in the HERS Technical Manual. The database shall contain statewide standardized cost values and regional adjustment factors.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1673. Requirements for Providers [Operative on and after the effective date of 24 CCR 10-103.3]

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

(a) Training and Certification Procedures for Raters. Each Provider shall conduct the following Rater training and certification procedures.

(1) Each Provider's training program shall include classroom and field training of applicants for California Whole-House Home Energy Rater certifications, incorporating training in analysis, theory, and practical application in at least the following areas:

(A) Home energy consumption and efficiency data collection, organization and analysis.

(B) Principles of heat transfer.

(C) Building energy feature design and construction practice, including construction quality assurance, on-site renewable generation, and "house as a system" concepts.

(D) Safety practices relevant to home energy auditing procedures and equipment.

(E) Home energy audit procedures.

(F) Energy efficiency effects of building site characteristics.

(G) Types and characteristics of space heating, space cooling, service hot water, and hard wired lighting systems.

(H) Mathematical calculations necessary to utilize the Rating System.

(I) The modeling and use of Energy Commission-approved HERS software required to produce a California Whole-House Home Energy Rating or a California Home Energy Audit and the associated California Home Energy Rating Certificate, California Home Energy Audit Certificate and HERS Report in accordance with the algorithms, procedures, methods, assumptions, and defaults specified in the HERS Technical Manual.

(J) Methods of cost-effectiveness analysis including interest and discount rates, cost-benefit ratios, life cycle cost analysis, calculation of present value, cash flow analysis, payback analysis, and cost estimation.

(K) The function and proper use of diagnostic devices including but not necessarily limited to: duct leakage testing equipment, blower doors, and air flow and pressure measurement devices.

(L) Construction types, equipment types, and their associated energy efficiency ramifications.

(M) Interpretation of prioritized recommendations for efficiency improvements and customized adjustment procedures for specific occupants.

(N) The behavioral, psychological, cultural, and socioeconomic influences on energy consumption of home occupants in the United States and California.

(O) California Home Energy Rating System Program requirements specified in these regulations.

(2) California Home Energy Inspector applicants shall not be required to be trained by the Provider in areas indicated in Sections 1673(a)(1)(H), (I), (J), (K), (M), and (N) but shall be required to receive specific training in the areas indicated in Sections 1673(a)(1)(A) through (G) and general training in Sections 1673 (a)(1)(L) and (PO).

(3) California Home Energy Analysts applicants shall not be required to be trained by the Provider in Sections 1673(a)(1)(D) and (K) but shall be required to receive specific training in Sections 1673(a)(1)(G), (H), (I), and (J) and general training in Sections 1673(a)(1)(A) to (C), (E), (F), and (L) to (PO).

(4) The training for all certifications and Raters shall include thorough instruction in using the Provider's Rating System and database.

(5) The training shall require California Whole-House Home Energy Rater applicants to satisfactorily perform a rating for at least one home that includes field verification and diagnostic testing in the presence and under the direct supervision of the Provider's trainer or Quality Assurance Reviewer. The Provider shall review and approve these ratings for accuracy and completeness.

(6) The Provider shall require each applicant to take an Energy Commission-approved written and practical test that demonstrates their competence in all subjects specified in Section 1673(a)(1). The Provider shall retain all results of these tests for five years from the date of the test.

(7) Each Provider may establish an Energy Commission-approved challenge test that evaluates competence in each area addressed by the Provider's training program. If a Rater applicant successfully passes this challenge test, the Provider may waive the classroom training requirement and the written and practical test requirements for that applicant. An applicant who passes this challenge test shall also successfully meet the requirements specified in Section 1673(a)(5)(6).

(8) Programs incorporating Building Performance Contractors shall provide specific training in all areas specified in Section 1673(a)(1). These programs shall be submitted by the Provider for individual review and approval by the Energy Commission.

(b) Rater Agreements. As a condition of Rater registry under Section 1673(d), each Provider shall ensure that a Rater applicant who has met the applicable requirements of Section 1673(a) has entered into an agreement with the Provider to provide home energy rating services in compliance with these regulations. The agreement shall require Raters to:

(1) Provide home energy rating services in compliance with these regulations.

(2) Provide true, accurate, and complete data, analysis, and ratings.

(3) Not accept payment or consideration in exchange for reporting data gathered for a rating, analytical results used for a rating, or a rating result that was not in fact conducted and reported in compliance with these regulations.

(4) Comply with the conflict of interest requirements as specified in Section 1673(i).

(c) Building Performance Contractor Agreements. To be certified and registered as a Building Performance Contractor, a Provider shall ensure that a Building Performance Contractor applicant has entered into an agreement with the Provider to provide home energy rating services in compliance with these regulations. The agreement shall require Building Performance Contractors to:

(1) Be current and active licensed Class B general building contractors and agree to abide by the laws and regulations of the California Contractors State License Board, including, but not limited to, complying with advertising requirements, home improvement contract requirements, and use of properly licensed subcontractors.

(2) Provide home energy rating services in compliance with these regulations.

(3) Provide home energy rating services under these regulations only with Raters certified under an Energy Commission-approved Building Performance Contractor program pursuant to Section 1674(e).

(4) Comply with requirements for the issuance of building permits, state and local building codes, and the other requirements of Section 7110 of the Contractor's License Law (Business and Professions Code).

(5) Notify the Provider of any citation, suspension, or revocation actions by the California Contractors State License Board against the contractor.

(d) Rater and Building Performance Contractor Registry. As a condition of Rater registry, each Provider shall certify to the Energy Commission that a Rater applicant has met the requirements of Section 1673(a) and entered into an agreement meeting the requirements of Section 1673(b). As a condition of Building Performance Contractor registry, each Provider shall certify to the Energy Commission that the applicant has met the definition of a Building Performance Contractor and entered into an agreement meeting the requirements of Section 1673(c). The Provider shall maintain a registry of all Raters, persons, or firms that meet these requirements, provide an electronic copy of the registry to the Energy Commission, and make that registry available in printed or electronic form upon written request.

(e) Data Maintenance.

Each Provider shall record and maintain for a period of ten years all data collected for a rating if the data is listed as a required or optional input for the rating in question. This requirement

shall apply to data collected from a site visit, from the plans for a newly constructed building, or from a utility bill analysis. All required or optional outputs generated for a rating shall also be recorded.

(f) Data Submittal. Upon the Energy Commission's request, but not more frequently than annually, a Provider shall submit to the Energy Commission information recorded pursuant to Section 1673(e) and provide the Energy Commission ongoing access to the Provider's database. If the Energy Commission makes this information public, it will be in an aggregated form only.

(g) Training Materials Retention. Each Provider shall retain for at least five years after the last date they are used, at least one copy of all materials used to train Raters.

(h) Quality Assurance. Each Provider shall have a quality assurance program that provides for at least the following:

(1) Quality Assurance Staff. The Provider shall have a designated Quality Assurance Manager to oversee the quality assurance process. The Quality Assurance Manager shall appoint as many Quality Assurance Reviewers as necessary to assist with the completion of the tasks outlined in this Subsection 1673(h). The qualifications of the Quality Assurance Manager and the Quality Assurance Reviewers shall be submitted to the Energy Commission.

(2) Initial Review. The Provider shall review and approve for accuracy and completeness the rating documentation for at least the first five homes which a Rater performs after completion of the requirements specified in Section 1673(a)(1) through Section 1673(a)(6), not including those homes rated under the Provider's direct supervision as specified in Section 1673(a)(6).

(3) Quality Assurance for California Whole-House Home Energy Raters.

(A) For each Rater, the Provider shall annually evaluate the greater of one rating, randomly selected or one percent of the Rater's past 12 months' total number of ratings (rounded up to the nearest whole number) for each measure tested by the Rater. For Raters that have had at least one quality assurance evaluation for any measure in the past 12 months, this evaluation shall only be required to be done for those measures that have been tested by the Rater at least 10 times in the past 18 months. The Provider shall independently repeat the rating to check whether the rating was accurately completed by the Rater, and determine whether information was completely collected and reported. The Provider also shall conduct the same check on one percent of all ratings conducted through the Provider, selected randomly from the Provider's entire pool of ratings on an ongoing basis. For Energy-Rated Homes using the Building Performance Contractor exception to Section 1673(i)(3), at least five percent of the Energy-Rated Homes shall be evaluated by a Quality Assurance Reviewer.

(B) Raters shall not be informed that a building or installation will be field checked until after they have completed the original rating. The field check shall occur after the submission and distribution of the HERS Report for a home energy rating.

(C) These evaluations by the Provider's Quality Assurance personnel shall be documented in the Provider's database and include the results of all testing performed by the Provider's Quality Assurance personnel. If the Provider's Quality Assurance personnel determine that the Rater's results did not meet the criteria for truth, accuracy, or completeness of these regulations, then the Provider shall report the quality assurance failure on the Provider's Rater

registry and Building Performance Contractor registry websites for a period of six months. In addition, the Provider's Quality Assurance personnel shall evaluate two additional ratings of the failed measure by the same Rater performed in the past 12 months. If a second deficiency is found, then the Rater shall have two percent (rounded up to the nearest whole number) of his or her ratings of the failed measure evaluated for the next 12 months by all Providers. The Provider's Quality Assurance Manager shall notify other Providers in writing or by electronic mail of Raters that are required to have additional quality assurance verification as required by this provision.

(4) Additional Quality Assurance for Unrated or Untested Buildings or Installations.

(A) For houses or installations passed as part of a sampling group but not specifically field verified or rated by a Rater, the greater of one house or installation or one percent of all unrated or untested buildings or installations in groups sampled by the Rater shall be independently rated or field verified by the Provider's Quality Assurance personnel.

(B) These quality assurance verifications shall be blind tests in that the Provider shall not inform the installer, builder, or the Rater that the specific building or installation will be verified.

(C) The results of these quality assurance verifications shall be entered into the Provider's database. The Provider shall summarize the results of these quality assurance verifications and submit them to the Energy Commission on an annual basis and provide the Energy Commission with ongoing access to the database and associated summaries of the results of these verifications.

(5) Complaint Response System. Each Provider shall have a system for receiving complaints. The Provider shall respond to and resolve complaints related to ratings services and reports. Providers shall ensure that Raters inform purchasers and recipients of ratings services about the complaint system. Each Provider shall retain all records of complaints received and responses to complaints for five years after the date the complaint is presented to the Provider and annually report a summary of all complaints and action taken to the Executive Director.

(i) Conflict of Interest.

(1) Providers shall be independent entities from Raters.

(2) Providers and Raters shall be independent entities from the builder and from the subcontractor installer of energy efficiency improvements ~~field verified or diagnostically tested.~~

(3) Providers and Raters shall be independent entities from any firm or person that performs work on the home for a California Home Energy Audit or a California Whole-House Home Energy Rating. EXCEPTION to Section 1673(i)(3): California Whole-House Home Energy Raters, who are working as or for a Building Performance Contractor certified under an Energy Commission-approved Building Performance Contractor program as part of a Provider's Rating System as specified in Section 1674(e) of the regulations and in the HERS Technical Manual, shall not be required to be an independent entity from the person(s) or firm(s) performing the work on a home.

(j) Improvement Measures Cost Database. Each Provider shall develop and maintain a database of the cost of implementing the efficiency improvement measures specified in the HERS Technical Manual. The database shall contain statewide standardized cost values and regional adjustment factors.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

**Section 1674. Certification of Providers and Rating Systems
[Operative from January 1, 2024, until the date 24 CCR 10-103.3
becomes effective]**

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

(a) Application. A person or entity wishing to be certified as a Provider and wishing to have a Rating System certified shall submit four copies of an application to the Energy Commission. The application shall contain:

- (1) A complete copy of all rating procedures, manuals, handbooks, Rating System descriptions, and training materials.
- (2) A detailed explanation of how the Rating System meets each requirement of Section 1672.
- (3) A detailed explanation of how the Provider meets each requirement of Section 1673.
- (4) The name, address, and telephone number of the Provider and a statement of where its principal place of business is and where and upon whom service of legal process can be made.
- (5) Upon Energy Commission request, if the Provider is a corporation, a copy of the articles of incorporation and the current by-laws.
- (6) If the Provider is a partnership, the names, addresses, telephone numbers, and partnership status (for example, general, managing) of all the partners, and a copy of the current partnership agreement.
- (7) The names, addresses, telephone numbers, and business relationships of all the Provider's owners, parents, subsidiaries, and affiliates.
- (8) A statement that ratings are accurate, consistent, and uniform, utility bill estimates are reasonable, and recommendations on cost-effective energy efficiency improvement measures are reliable.
- (9) A statement that the Provider understands and will not knowingly fail to comply with the requirements of these regulations.
- (10) A statement under penalty of perjury that all statements in the application are true, provided in the form specified by Section 2015.5 of the Code of Civil Procedure.

(b) Confidentiality of Information. Any Provider who submits the required application information and wishes to have that information treated as confidential in order to limit its disclosure shall, at the time of submitting the information, apply for a confidential designation as specified in Section 2505 of Title 20 of the California Code of Regulations.

(c) Energy Commission Consideration.

- (1) The Energy Commission's Executive Director may request additional information from the applicant necessary to complete and evaluate the application.
- (2) The Executive Director shall provide a copy of its evaluation to interested persons. The Executive Director may convene a workshop to receive comments from interested persons.
- (3) Within 90 business days of receiving the complete application, the Executive Director shall send to the Energy Commission and to the applicant a written recommendation that the Energy Commission certify the Provider and its Rating System or deny that certification.
- (4) The Executive Director shall recommend certifying the Provider and Rating System if the Executive Director finds the following:
 - (A) The Rating System meets all of the requirements of Section 1672.
 - (B) The Provider meets all of the requirements of Section 1673.
- (5) The Energy Commission shall act on the recommendation at its next regularly scheduled Business Meeting that is at least 15 business days after the date that the recommendation was mailed to the applicant.
- (6) The Energy Commission shall certify the proposed Provider and Rating System if it confirms the Executive Director's findings in Section 1674(c)(4).
- (7) Upon certification the Energy Commission shall assign the Provider a three-digit identification number.
- (d) HERS Rating Software Approval. As part of a Provider's Home Energy Rating System the Provider shall apply for approval of HERS rating software. Application for approval of HERS rating software may be submitted with the application for certification of the Provider and their Rating System or as an amendment to their approval and certification. However, approval of HERS rating software is subject to an independent timeline.

The approval process for HERS rating software shall only begin after Energy Commission approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards in accordance with the requirements of the ACM Manual.

- (1) If the application for the HERS rating software approval is complete, the Executive Director shall make the application available to interested parties by posting the information on the Energy Commission website for public comments. Comments from interested parties shall be submitted within 60 business days after acceptance of the application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later.
- (2) Within 75 business days of receipt of an application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later, the Executive Director may request any additional information needed to evaluate the application. If the additional information is incomplete, consideration of the application shall be delayed until the applicant submits complete information.
- (3) Within 75 business days of receipt of the application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later, the Executive Director may convene a workshop to gather additional information from

the applicant and other interested parties. Interested parties shall have 15 business days after the workshop to submit additional information regarding the application.

(4) Within 90 business days after the Executive Director receives the application, or within 30 business days after receipt of complete additional information requested, or within 60 business days after the receipt of additional information submitted by interested parties, whichever is later, the Executive Director shall submit to the Energy Commission a written recommendation on the application.

(5) The application and the Executive Director's recommendation shall be placed on the business meeting agenda and considered at a business meeting within 30 business days after submission of the recommendation.

(6) All applicants have the burden of proof to establish that their applications should be approved.

(e) Special Approval. Programs within Rating Systems using California Home Energy Inspectors or Building Performance Contractors to develop or complete California Whole-House Home Energy Ratings or California Home Energy Audits shall be separately approved by the Energy Commission. Rating Systems using Third Party Quality Control programs as described in the Residential Appendices to Title 24, Part 6 for field verification and diagnostic testing procedures to verify compliance with Title 24, Part 6, shall also be separately approved by the Energy Commission.

(f) Re-certification. A certified Provider shall notify the Energy Commission whenever any change occurs in any of the information, documentation, or materials the Provider submitted to the Energy Commission under Section 1674(a), and shall submit the changed information to the Energy Commission. Where this changed information could affect the Provider's compliance with these regulations, the Energy Commission may require that the Provider and the Rating System be re-certified under the process described in Section 1674. The Executive Director may waive re-certification for non-substantive changes. The Energy Commission may also require that Providers and Rating Systems be re-certified if the requirements of these regulations are amended or modified.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1674. Certification of Providers and Rating Systems **[Operative on and after the effective date of 24 CCR 10-103.3]**

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

(a) Application. A person or entity wishing to be certified as a Provider and wishing to have a Rating System certified shall submit four copies of an application to the Energy Commission. The application shall contain:

(1) A complete copy of all rating procedures, manuals, handbooks, Rating System descriptions, and training materials.

(2) A detailed explanation of how the Rating System meets each requirement of Section 1672.

(3) A detailed explanation of how the Provider meets each requirement of Section 1673.

(4) The name, address, and telephone number of the Provider and a statement of where its principal place of business is and where and upon whom service of legal process can be made.

(5) Upon Energy Commission request, if the Provider is a corporation, a copy of the articles of incorporation and the current by-laws.

(6) If the Provider is a partnership, the names, addresses, telephone numbers, and partnership status (for example, general, managing) of all the partners, and a copy of the current partnership agreement.

(7) The names, addresses, telephone numbers, and business relationships of all the Provider's owners, parents, subsidiaries, and affiliates.

(8) A statement that ratings are accurate, consistent, and uniform, utility bill estimates are reasonable, and recommendations on cost-effective energy efficiency improvement measures are reliable.

(9) A statement that the Provider understands and will not knowingly fail to comply with the requirements of these regulations.

(10) A statement under penalty of perjury that all statements in the application are true, provided in the form specified by Section 2015.5 of the Code of Civil Procedure.

(b) Confidentiality of Information. Any Provider who submits the required application information and wishes to have that information treated as confidential in order to limit its disclosure shall, at the time of submitting the information, apply for a confidential designation as specified in Section 2505 of Title 20 of the California Code of Regulations.

(c) Energy Commission Consideration.

(1) The Energy Commission's Executive Director may request additional information from the applicant necessary to complete and evaluate the application.

(2) The Executive Director shall provide a copy of its evaluation to interested persons. The Executive Director may convene a workshop to receive comments from interested persons.

(3) Within 90 business days of receiving the complete application, the Executive Director shall send to the Energy Commission and to the applicant a written recommendation that the Energy Commission certify the Provider and its Rating System or deny that certification.

(4) The Executive Director shall recommend certifying the Provider and Rating System if the Executive Director finds the following:

(A) The Rating System meets all of the requirements of Section 1672.

(B) The Provider meets all of the requirements of Section 1673.

(5) The Energy Commission shall act on the recommendation at its next regularly scheduled Business Meeting that is at least 15 business days after the date that the recommendation was mailed to the applicant.

(6) The Energy Commission shall certify the proposed Provider and Rating System if it confirms the Executive Director's findings in Section 1674(c)(4).

(7) Upon certification the Energy Commission shall assign the Provider a three-digit identification number.

(d) HERS Rating Software Approval. As part of a Provider's Home Energy Rating System the Provider shall apply for approval of HERS rating software. Application for approval of HERS rating software may be submitted with the application for certification of the Provider and their Rating System or as an amendment to their approval and certification. However, approval of HERS rating software is subject to an independent timeline.

The approval process for HERS rating software shall only begin after Energy Commission approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards in accordance with the requirements of the ACM Manual.

(1) If the application for the HERS rating software approval is complete, the Executive Director shall make the application available to interested parties by posting the information on the Energy Commission website for public comments. Comments from interested parties shall be submitted within 60 business days after acceptance of the application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later.

(2) Within 75 business days of receipt of an application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later, the Executive Director may request any additional information needed to evaluate the application. If the additional information is incomplete, consideration of the application shall be delayed until the applicant submits complete information.

(3) Within 75 business days of receipt of the application or approval of the software as compliance software for the Title 24, Part 6, Building Energy Efficiency Standards, whichever is later, the Executive Director may convene a workshop to gather additional information from the applicant and other interested parties. Interested parties shall have 15 business days after the workshop to submit additional information regarding the application.

(4) Within 90 business days after the Executive Director receives the application, or within 30 business days after receipt of complete additional information requested, or within 60 business days after the receipt of additional information submitted by interested parties, whichever is later, the Executive Director shall submit to the Energy Commission a written recommendation on the application.

(5) The application and the Executive Director's recommendation shall be placed on the business meeting agenda and considered at a business meeting within 30 business days after submission of the recommendation.

(6) All applicants have the burden of proof to establish that their applications should be approved.

(e) Special Approval. Programs within Rating Systems using California Home Energy Inspectors or Building Performance Contractors to develop or complete California Whole-House Home Energy Ratings or California Home Energy Audits shall be separately approved by the Energy Commission.

(f) Re-certification. A certified Provider shall notify the Energy Commission whenever any change occurs in any of the information, documentation, or materials the Provider submitted to the Energy Commission under Section 1674(a), and shall submit the changed information to the Energy Commission. Where this changed information could affect the Provider's compliance with these regulations, the Energy Commission may require that the Provider and the Rating System be re-certified under the process described in Section 1674. The Executive Director may waive re-certification for non-substantive changes. The Energy Commission may also require that Providers and Rating Systems be re-certified if the requirements of these regulations are amended or modified.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1675. Review by the Energy Commission [Operative from January 1, 2024, until the date 24 CCR 10-103.3 becomes effective]

This section will remain effective until the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, upon which it will be replaced by the amended version below.

(a) Annual Review. The commission may annually review the performance of Providers certified under Section 1674 to determine whether the Providers comply with the requirements of these regulations. This review may include interviewing recipients of ratings and field verification and diagnostic testing services and reports on a voluntary basis.

(b) Request for Investigation. Any person or entity may file a request for investigation concerning any violation of these regulations as provided for in Section 1230 et. seq. of Title 20 of the California Code of Regulations. The commission may, for good cause, conduct an investigation and, if necessary, hearing, under the procedures established in Section 1233 et. seq. Each Provider shall provide all information requested by the Energy Commission regarding any annual review or complaint proceeding.

(c) Commission Determination. If the commission determines there is a violation of these regulations or that a Provider is no longer providing rating, field verification and diagnostic testing services, the commission may revoke the certification of the Provider pursuant to Section 1233 et. seq.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.

Section 1675. Review by the Energy Commission [Operative on and after the effective date of 24 CCR 10-103.3]

Upon the effective date of section 10-103.3 in Part 1 of Title 24 of the California Code of Regulations, the following amended version of this section will become effective, replacing the version above.

(a) Annual Review. The commission may annually review the performance of Providers certified under Section 1674 to determine whether the Providers comply with the requirements of these regulations. This review may include interviewing recipients of ratings services and reports on a voluntary basis.

(b) Request for Investigation. Any person or entity may file a request for investigation concerning any violation of these regulations as provided for in Section 1230 et. seq. of Title 20 of the California Code of Regulations. The commission may, for good cause, conduct an investigation and, if necessary, hearing, under the procedures established in Section 1233 et. seq. Each Provider shall provide all information requested by the Energy Commission regarding any annual review or complaint proceeding.

(c) Commission Determination. If the commission determines there is a violation of these regulations or that a Provider is no longer providing rating services, the commission may revoke the certification of the Provider pursuant to Section 1233 et. seq.

NOTE: Authority cited: Sections 25213 and 25942, Public Resources Code. Reference: Section 25942, Public Resources Code.