

BayREN Codes & Standards Training
Energy Code Training
Part II:
Residential Forms and Permit
Submittals For Additions

Updated October 2016



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INTRODUCTION

BayREN Codes & Standards Trainings

- BayREN Codes & Standards is a joint effort of Bay Area cities and counties to achieve full compliance with provisions of the California Energy Code.
- BayREN trainings seek to provide building department staff and private sector building professionals with tools and strategies for improving energy code compliance.
- Today's Brown Bag is part of the Residential Forms and Submittal Best Practices Series.

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Today's Learning Objectives

- Understand how Compliance forms are used
- Navigate the Compliance Process
- Maximize the benefit of the HERS Registries



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Introduction

2013 vs. 2016 Codes

Note:

- The information presented in this class is applicable to both the 2013 and 2016 versions of the energy code.
- While there were substantial changes, they mostly affect the features that have to be installed and **not the process for verifying those features**, which is what this class covers.
- Summaries of the 2016 changes are provided as extra handouts.
- Where there are differences between the two code versions, they are called out in these materials.

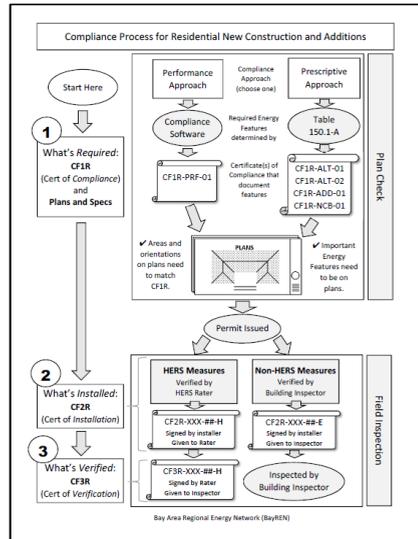
4

Understanding the COMPLIANCE PROCESS

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Compliance Process Flow Diagram

Refer to full-size copy provided with your handouts.



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Compliance Process Flow Diagram

Note: The “compliance approach” is the *method* by which energy features are determined.

There are two basic approaches, **prescriptive** and **performance**.

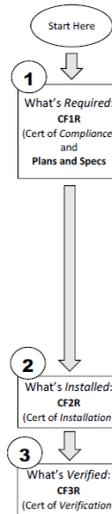
These are in addition to the **mandatory** measures, which apply regardless of the compliance approach.

This is covered in more detail in a later section.

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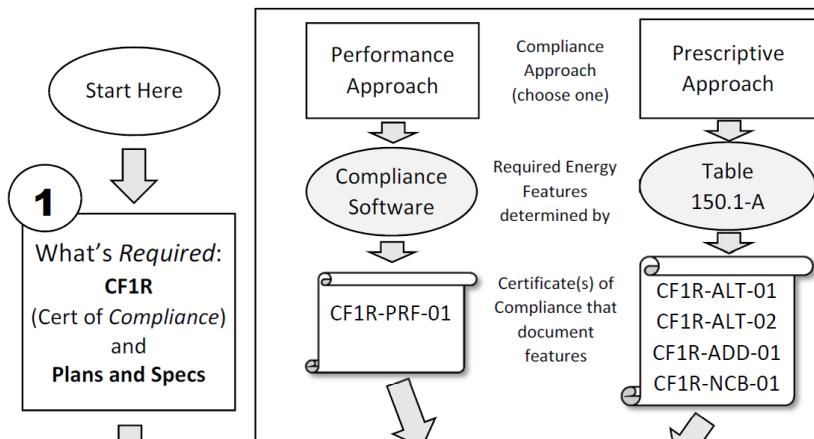
Compliance Process Flow Diagram

- Notice that the forms (CF1R, CF2R, and CF3R) are there and follow a simple 1 - 2- 3 flow.
- Notice that process is divided into Plan Check and Field Inspection sections and that good communication must flow between them.
- The forms are intended to facilitate this.



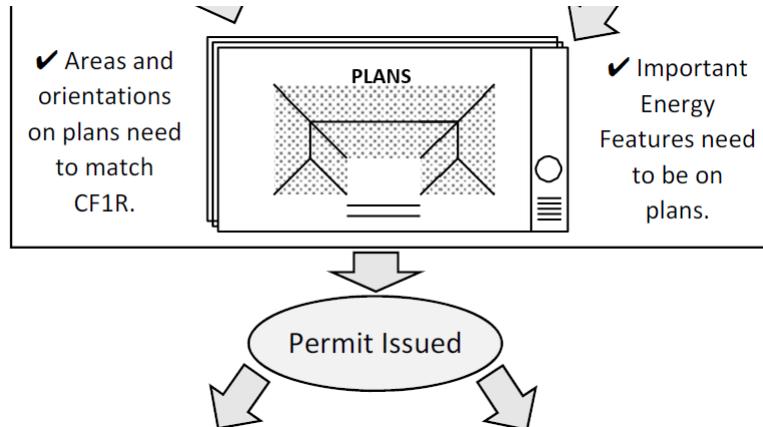
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Compliance Process Flow Diagram



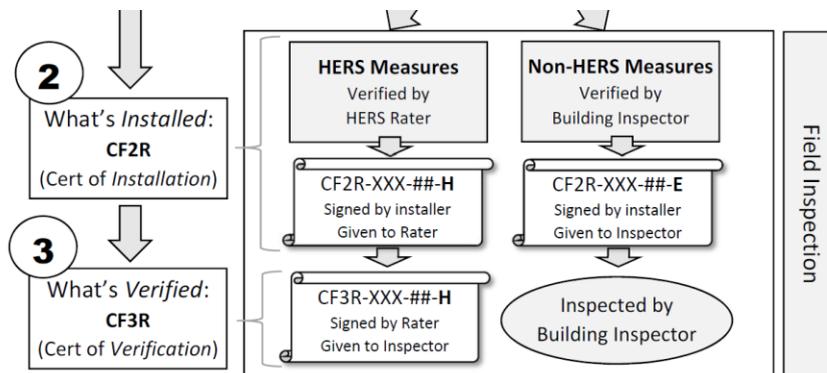
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Compliance Process Flow Diagram



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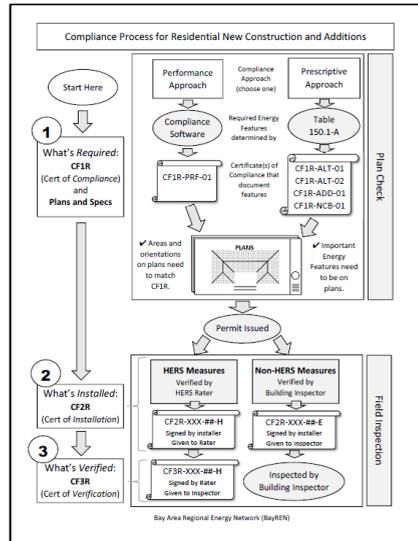
Compliance Process Flow Diagram



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Compliance Process Flow Diagram

Any questions?



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UNDERSTANDING THE FORMS 1-2-3

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Understanding the Forms 1-2-3

- There is a clear, intentional sequence to the documents:
 1. Document what is **required**
 2. Document what was **installed**
 3. Document what was **verified**
- When these three *kinds* of documentation **match**, the process was successful.
- Note: Not all installed features need to be third party verified.

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Understanding the Forms 1-2-3

Example:

- An addition project complies using the *prescriptive* approach (essentially a list of features, based on climate zone).
- The energy features needed to comply are:
 - Feature A (e.g., dual-pane, low-E, vinyl framed windows, with performance factors of X and Y)
 - Feature B (e.g., R-19 walls)
 - Feature C (e.g., R-38 ceiling)
 - Feature D (e.g., HVAC sealed ducts) *
 - Feature E (e.g., proper airflow and fan watt draw) *

* Requires third party verification

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Understanding the Forms 1-2-3

- All of the required features need to be documented in a clear, concise manner so that all parties involved know what is expected of them.
- Also, someone needs to assume responsibility for making sure that this list gets distributed to all involved parties.
- The “Step 1 Document” does this (Document what is required)

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Step 1 – Document What is Required

- This first compliance document is called the:

**CF1R – Certificate of
Compliance**

<p>CF1R Certificate of Compliance</p> <p>"What's Required"</p> <p>Feature A Feature B Feature C Feature D* Feature E*</p> <p>X </p>

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Understanding the Forms 1-2-3

- Notice that
 - Feature A,
 - Features B and C, and
 - Features D and Eare probably installed by three different specialty contractors.

- Each specialty contractor must assume responsibility for his or her **own** work.

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Understanding the Forms 1-2-3

- They need to attest to the fact that
 - They knew what was **supposed** to be installed
 - They **installed** the correct feature

- The “Step 2 Document” does this. (Document what was *installed*)

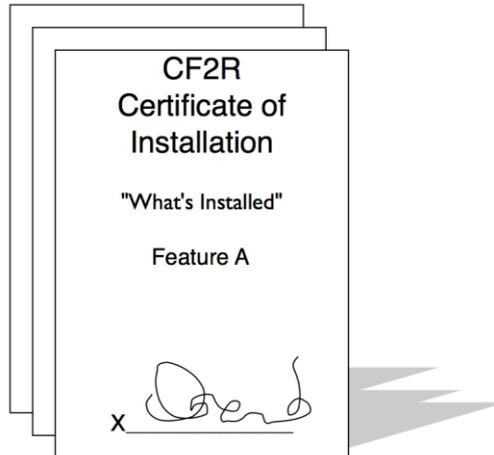
- There should be a different form for each trade or feature.

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Step 2 – Document What is Installed

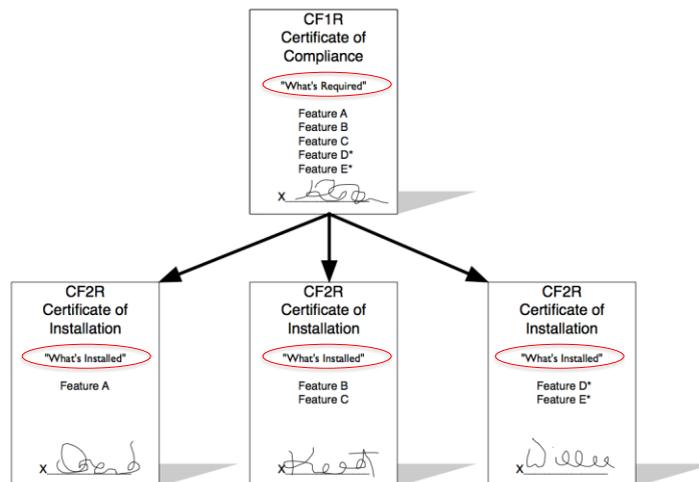
- This second compliance document is called the:

CF2R – Certificate of Installation



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Step 2 – Document What is Installed



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Understanding the Forms 1-2-3

A note about the **CF2R Certificate of Installation**:

Up until the 2013 Code the CF2R was referred to as the CF6R and it was one long, single document signed by ALL of the installers at the job site. Breaking it into multiple parts made it easier to distribute to the responsible parties. Making it electronic made it so that it could be signed from anywhere.

A certificate of installation was requested by and lobbied for very heavily by the building industry, mainly production home builders represented by California Building Industry Association (CBIA). This occurred during the late '90s when defect litigation was a serious problem. Builders needed a way to put more accountability on the trades.

It is essentially an affidavit that the correct features were installed.

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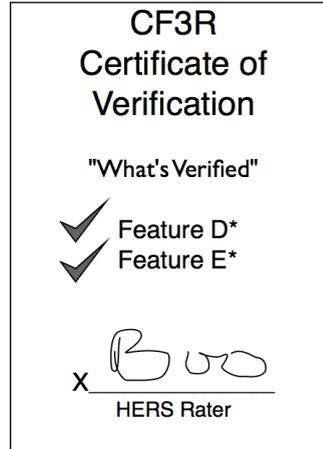
Understanding the Forms 1-2-3

- For Features D and E, which require **third party verification**, there needs to be a way for the building inspector to be assured that third party verification actually occurred and that the features **passed** any necessary tests.
- The “Step 3 Document” does this. (Document what was verified)
- There should be a different one for each test/verification.

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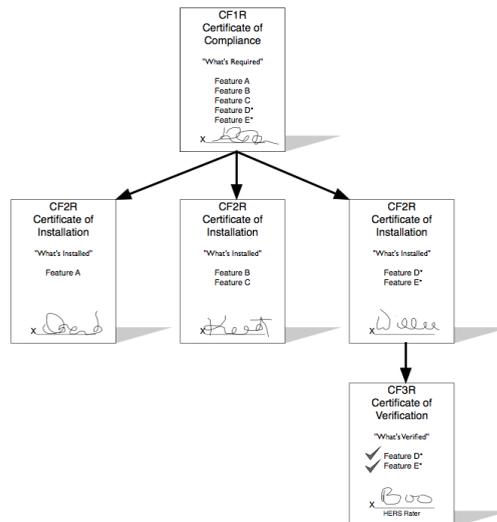
Step 3 – Document What is Verified

- This third compliance document is called the: **CF3R – Certificate of Verification**



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Step 3 – Document What is Verified



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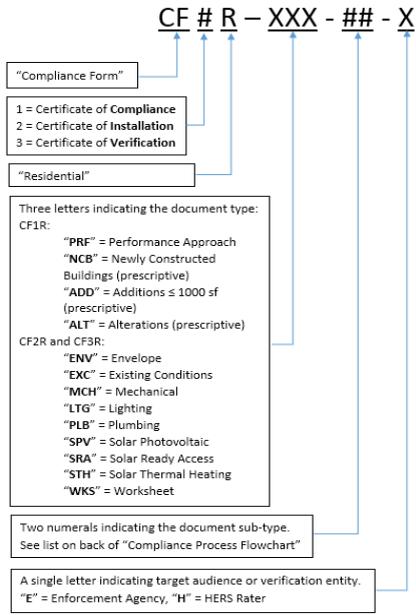
Understanding the Forms 1-2-3

- When these three kinds of documentation **match**, the process was successful.
- Not all installed features need to be third party verified (Step 3), but when they do Steps 1 and 2 need to **match** Step 3 for those features.

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FORMS THAT WILL COMMONLY BE USED FOR *ADDITIONS*

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Form Name Nomenclature

Forms That Will Commonly Be Used for Additions

CF1R Certificates of Compliance

- **CF1R-ADD-01-E:** Used when the *prescriptive* approach is used to demonstrate compliance for additions less than or equal to 1000 square feet. *See example in Appendix.*
 - The prescriptive approach basically uses a list of features that vary by climate zone.
 - Some prescriptive and mandatory measures do not apply because it is less than 1000 square feet.
 - The prescriptive approach is simple, but less flexible.

ADD = Addition

Forms That Will Commonly Be Used for *Additions*

- **CF1R-NCB-01-E:** Used when the *prescriptive* approach is used to demonstrate compliance for additions *over* 1000 square feet. *See example in appendix.*
 - Note: additions *over* 1000 square feet have very similar requirements to a completely new home.
- Similar to CF1R-ADD-01-E but requires more mandatory and prescriptive features because it is for larger additions.

NCB = Newly Constructed Building

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Forms That Will Commonly Be Used for *Additions*

- **CF1R-PRF-01-E:** Used when the *performance* approach is used to demonstrate compliance for any size addition. *See example in Appendix.*
- The performance approach uses a computerized energy-simulation program to determine the energy features.

PRF = Performance

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Forms That Will Commonly Be Used for *Additions*

- A **CF1R-ALT-02** may also be needed to document the *special requirements* of an altered HVAC system if the existing home's HVAC system is being *altered* (modified) by the addition or replacement of:
 - Condenser, coil, air handler, or
 - More than 40 feet of duct

ALT = Alteration

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Forms That Will Commonly Be Used for *Additions*

- If an entirely new system is being installed for the addition, a **CF1R-ALT-02** is not needed.



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Forms That Will Commonly Be Used for *Additions*

CF2R Certificates of Installation document **proper installation** of the identified measure.

Non-HERS Measures (note the “E” at the end = Enforcement)

- CF2R-ENV-01-E: **fenestration** (windows, skylights, etc.)
- CF2R-ENV-02-E: **air sealing** features (weatherstripping, caulking/sealing, backdraft dampers, etc.)
- CF2R-ENV-03-E: **insulation**
- CF2R-ENV-04-E: **roofing** products
- CF2R-LTG-01-E: **lighting** features
- CF2R-MCH-01-E: **mechanical** systems (HVAC)

ENV = Envelope

LTG = Lighting

MCH = Mechanical

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Forms That Will Commonly Be Used for *Additions*

HERS Verified Features (notice the “H” in the document name) will all have a corresponding CF3R form.

- CF2R-MCH-20-H: **sealed ducts***
- CF2R-MCH-22-H: **fan efficacy** (fan watt draw)*
- CF2R-MCH-23-H: **fan airflow***
- CF2R-MCH-25-H: **refrigerant charge***
- CF2R-MCH-27-H: **ventilation** to the ASHRAE 62.2 standard (additions greater than 1000 feet only)*

MCH = Mechanical
H = HERS Verified

* Similar to any newly constructed building, when the performance approach is used any or all of the CF2R forms may be required depending on the features modeled and compliance credits taken.

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Forms That Will Commonly Be Used for *Additions*

CF3R Certificates of Verification document **verification of proper installation** of the identified measure:

- CF3R-MCH-20-H: **sealed HVAC ducts**
- CF3R-MCH-22-H: **fan efficacy** (fan watt draw)
- CF3R-MCH-23-H: **fan airflow**
- CF3R-MCH-25-H: **refrigerant charge**
- CF3R-MCH-27-H: **ventilation** to the ASHRAE 62.2 standard (additions greater than 1000 feet only)

**MCH = Mechanical
H = HERS Verified**

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HERS Registry

- Building departments have direct access to registered documents within their jurisdiction through the revamped HERS provider registry.

Building department sign-up information.



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HERS Registry

- When a project requires HERS verified features, the CF1R Certificate of Compliance (and all subsequent CF2R and CF3R documents) must be “registered” with a HERS provider.
- A HERS registry is an on line *database* that generates, tracks and stores the CF1R, CF2R and CF3R documents.
- It will be rare for projects not to require any HERS verification.

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HERS Registry

- To not have any HERS measures, the project would have to:
 - Be an addition less than 1000 square feet
 - Use the prescriptive approach
 - Not have a new A/C or ducted heating system
 - Not involve the addition or replacement of a condenser, coil, air handler or 40 feet of duct

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HERS Registry

- BayREN has a special class dedicated specifically to learning how to best use the HERS registry.
- See your BayREN county representative for information on scheduling this and other classes.

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PRIORITIZING THE INFORMATION ON THE CF1R

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What to Check on a CF1R-PRF-01

- Refer to the “What to Check on a CF1R-PRF-01” checklist tool provided in your handouts.

BAY AREA Regional Energy Network

Permit Number: _____
Date Completed: _____
Completed By / Initials: _____

What to Check on a CF1R-PRF-01 (Residential Performance Approach)

The following items highlight the more important features to be verified on the CF1R-PRF-01 form.

General Information Section

- Item 06 Climate Zone – Should be correct for location of project.
- Item 11 Project Scope (new, addition, etc.) – Should match permit scope of work.
- Item 14 Total Conditioned Floor Area – Should match plans.
- Item 15 Front Orientation (degrees or “cardinal”) if master plan) – Should match plans.
- Item 13 Number of Dwelling Units – Should match plans, project description.
- Item 17 Number of Stories – Should match plans, project description.
- Item 22 Glazing Percentage – Total glass area divided by floor area (Item 14, above). Should match plans.

Compliance Results Section

- Row 02 Building Incorporates HERS Features – Leverage any listed HERS tests to reduce inspections.
- Column 07 Compliance Margin – How much it exceeds code by. <0%: small discrepancies may affect compliance. 0% to 10%: only large discrepancies will affect compliance. >10%: only very large discrepancies will affect compliance. Note: Energy Star and some reach codes require a compliance margin of 10%.

Opaque Surfaces Section (CF1R-ENV-03*)

- Column 01 Name – These are just arbitrary test descriptors. Make sure all sides of the house are listed.
- Column 03 Construction – Reference a later section that details each surface type.
- Column 04 and 05 Azimuth and Orientation – Make sure all sides of the house are listed.
- Column 06 Gross Area – Check to see if these are reasonable, according to plans.

Attic Section (CF1R-ENV-04*)

- Column 08 – If radiant barrier is specified, installation is verified in the field.
- Column 07 – If cool roof is specified, reflectance and emittance are verified in the field.

Windows Section (CF1R-ENV-05*)

- Column 09 Orientation-Azimuth and Column 07: Area – Should match plans.
- Columns 04 and 05: U-Factor and SHGC – Important to verify in the field.

Overhangs and Flats Section

- Column 02 Depth – Length of overhang. Quickly check anything > 1' against plans.

Opaque Surface Construction Section (CF1R-ENV-03*)

- Column 03 Construction name – Referenced from Opaque Surfaces Section, Column 03: Construction.
- Column 06 Assembly Layers – Look for R-values. These should be verified in the field.

Building Envelope HERS Verification Section (CF1R-ENV forms*)

- Leverage any listed HERS tests to reduce inspections.

Water Heating Section (CF1R-PLB-02*)

- System Type, Number of Tanks, Energy Factor and volume should be verified in the field.
- Leverage any listed HERS tests to reduce inspections. (CF1R-PLB forms)

HVAC Section (CF1R-ACH-01*)

- System Type, Efficiency, Duct Locations and Duct R-Value should be verified in the field.
- Leverage any listed HERS tests to reduce inspections. (CF1R-ACH forms)

IAQ (Indoor Air Quality) Fans Section (CF1R-ACH-2*)

- Leverage any listed HERS tests to reduce inspections.

Declaration Statements

- Documents should be signed by authorized individuals (digital signatures are legal).

*The CF1R/CF1R forms shown above are how the installers/HERS raters will document proper installation of features.

BayREN Checklist
What to Check on a CF1R-PRF-01 (revised 1/2/21/US) Page 1

BayREN Codes & Standards Training Part II: HERS Registry Training For Building Departments

Updated July 2016

INTRODUCTION

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Introduction 2013 vs. 2016 Codes

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- Today's class is part of the BayREN Compliance Enhancement for Residential Buildings Training Series.

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Today's Learning Objectives

- Understand how HERS verification fits into the overall compliance process.
- Understand when a project is required to be registered with a HERS provider and when it is not.
- Understand how to find a project in a HERS registry.
- Understand how to use the HERS registry to track compliance documentation for a project.
- Understand how to use a HERS registry to save time on field inspections.

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HERS Registry

- When a project requires HERS verified features, the CF1R Certificate of Compliance (and all subsequent CF2R and CF3R documents) must be “registered” with a HERS provider.
- A HERS registry is an on-line *database* that **generates**, tracks and stores the CF1R, CF2R and CF3R documents.
- It will be rare for projects not to require any HERS verification.

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HERS Registry

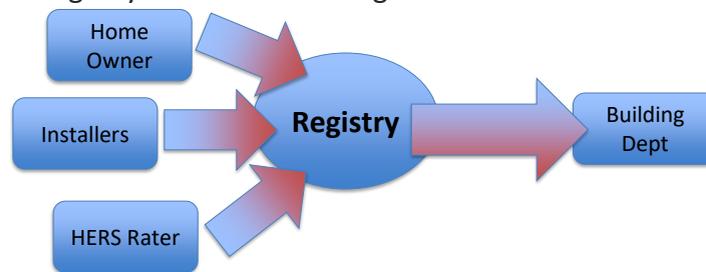
- The following projects all require HERS verification and therefore must be registered with a HERS provider:
 - Any new construction home.
 - Any addition over 1000 square feet.
 - Any addition or alteration that involves adding or replacing:
 - An A/C condenser,
 - An A/C coil,
 - An air handler (furnace) or
 - 40 feet or more of duct.
 - There are some exceptions to the HERS tests, but eligibility can be documented in the registry (they still can be registered). It’s a good idea to use the registry to confirm that the project is really exempt. Registry can still be used to track CF2Rs.

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HERS Registry

Track the status of projects from start to finish

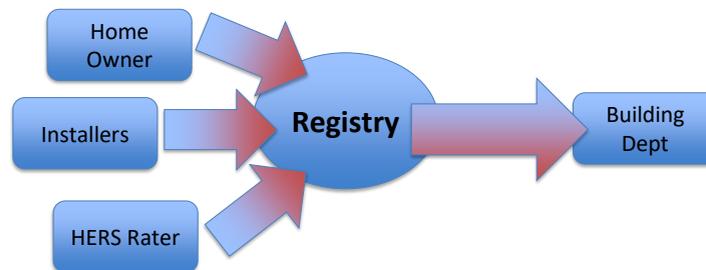
- Once a project is in the registry, it can be tracked from start to finish by anyone involved with the project, including the **building department**.
- It is common for things to change as a project progresses.
- The registry tracks these changes.



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HERS Registry

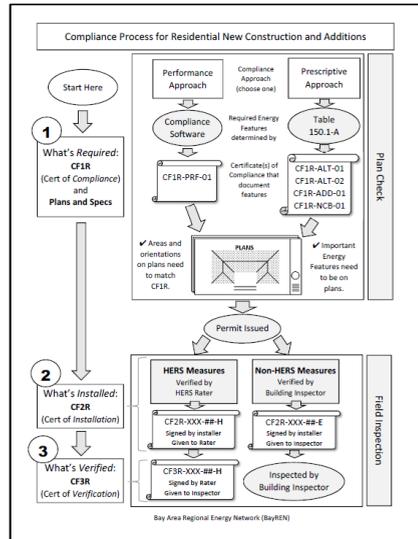
- No more paper (unless you prefer hard copies).
- Anyone can register a new project with a HERS Provider.
- Anyone can be given access to view the status of the project electronically.
- A project can be viewed **in the field** using a smart phone or tablet with internet access.



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Compliance Process Flow Diagram

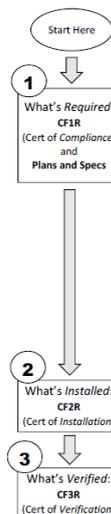
Refer to full-size copy provided with your handouts.



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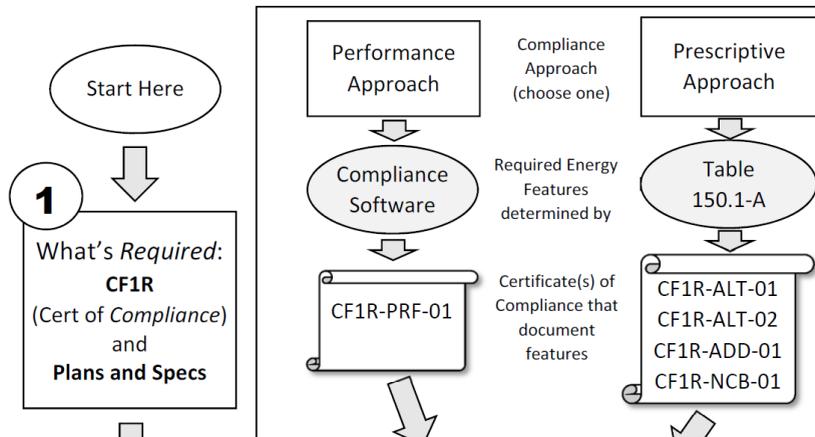
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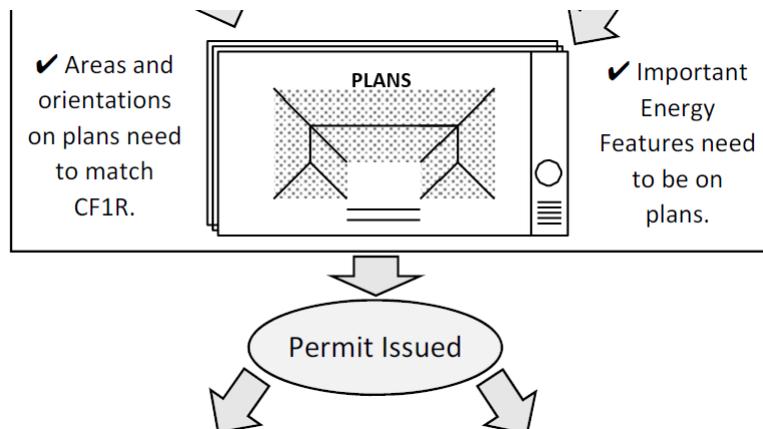
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Compliance Process Flow Diagram



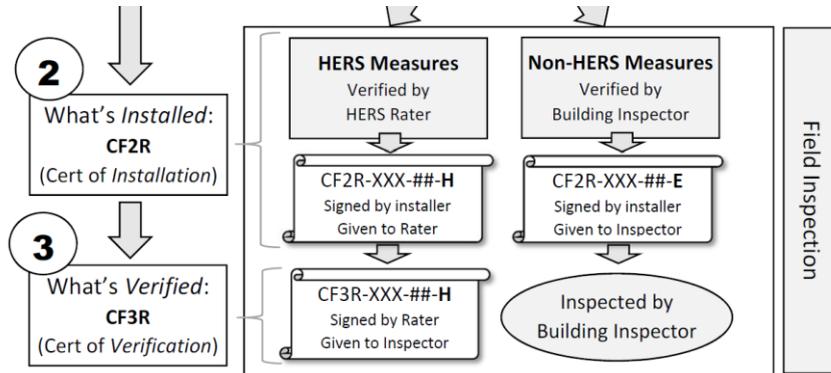
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Compliance Process Flow Diagram



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Compliance Process Flow Diagram

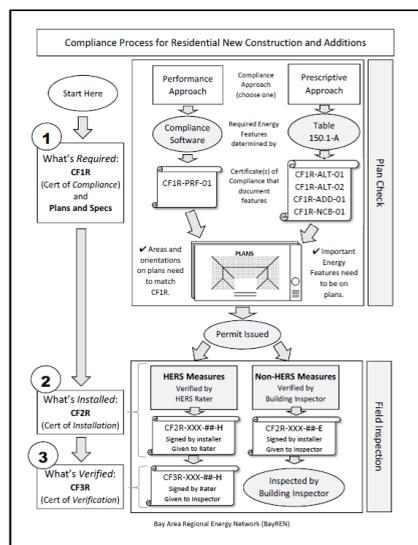


If a project requires HERS verification, **all** forms will be registered.

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Compliance Process Flow Diagram

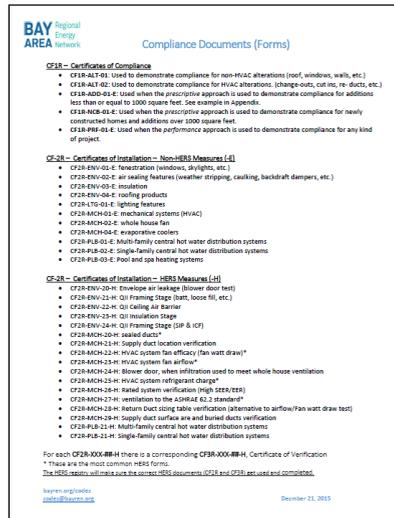
Any questions?



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Compliance Documents List

Refer to full-size copy provided with your handouts.



Compliance Documents List (Forms)

CF1R – Certificates of Compliance

- CF1R-ALT-01: Used to demonstrate compliance for non-HVAC alterations (roof, windows, walls, etc.)
- CF1R-ALT-02: Used to demonstrate compliance for HVAC alterations. (change-outs, cut ins, reducts, etc.)
- CF1R-ALT-03/04: Handwritten Versions of CF1R-ALT-02. Will need to be registered and converted to CF1R-ALT-02.
- CF1R-ADD-01-E: Used when the *prescriptive* approach is used to demonstrate compliance for additions less than or equal to 1000 square feet. See example in Appendix.
- CF1R-NCB-01-E: Used when the *prescriptive* approach is used to demonstrate compliance for newly constructed homes and additions over 1000 square feet.
- CF1R-PRF-01-E: Used when the *performance* approach is used to demonstrate compliance for any kind of project.

Compliance Documents List (Forms)

CF-2R – Certificates of Installation – **Non-HERS Measures (-E)**

- Common
 - CF2R-ENV-01-E: fenestration (windows, skylights, etc.)
 - CF2R-ENV-02-E: air sealing features (weather stripping, caulking, backdraft dampers, etc.)
 - CF2R-ENV-03-E: insulation
 - CF2R-ENV-04-E: roofing products
 - CF2R-LTG-01-E: lighting features
 - CF2R-MCH-01-E: mechanical systems (HVAC)
- Not very common.
 - CF2R-MCH-02-E: whole house fan
 - CF2R-MCH-04-E: evaporative coolers
 - CF2R-PLB-01-E: Multi-family central hot water distribution systems
 - CF2R-PLB-02-E: Single-family central hot water distribution systems
 - CF2R-PLB-03-E: Pool and spa heating systems

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Compliance Documents List (Forms)

CF-2R – Certificates of Installation – HERS Measures (-H)

- CF2R-ENV-20-H: Envelope air leakage (blower door test)
- CF2R-ENV-21-H: QII Framing Stage (batt, loose fill, etc.)
- CF2R-ENV-22-H: QII Ceiling Air Barrier
- CF2R-ENV-23-H: QII Insulation Stage
- CF2R-ENV-24-H: QII Framing Stage (SIP & ICF)
- **CF2R-MCH-20-H: Sealed ducts***
- CF2R-MCH-21-H: Supply duct location verification
- **CF2R-MCH-22-H: HVAC system fan efficacy (fan watt draw)***
- **CF2R-MCH-23-H: HVAC system fan airflow***
- CF2R-MCH-24-H: Blower door, when infiltration used to meet whole house ventilation
- **CF2R-MCH-25-H: HVAC system refrigerant charge***
- CF2R-MCH-26-H: Rated system verification (High SEER/EER)
- **CF2R-MCH-27-H: ventilation to the ASHRAE 62.2 standard***
- CF2R-MCH-28-H: Return Duct sizing table verification (alternative to airflow/Fan watt draw test)
- CF2R-MCH-29-H: Supply duct surface are and buried ducts verification
- CF2R-PLB-21-H: Multi-family central hot water distribution systems
- CF2R-PLB-22-H: Single-family central hot water distribution systems

*Most common HERS Tests

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Compliance Documents List (Forms)

- For each CF2R-...-H Certificate of *Installation* there is a corresponding CF3R-...-H, Certificate of *Verification*
- The list of CF3Rs would look exactly like the list of CF2R-Hs
- The HERS registry makes sure the correct HERS documents (CF2R and CF3R) get used and completed.

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The Process – HVAC Alterations The Most Common HERS Project

- Knowing whether or not a HERS rater is required on the project needs to be determined as early as possible to prevent problems later.
- It is not required to be known prior to **issuing** a permit, or even performing the work, but because **it can have a substantial impact on cost and scope of the project**, it should be done as early as possible.
- Note that a CF1R is not required to **issue** a permit for an HVAC change-out, but is required to **close** a permit.

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The Process – HVAC Alterations

- The HERS Provider Registry does an excellent job walking people through the complicated process (like “Turbo-Tax”).
- It is *recommended* that all HVAC alterations start there.
- This will help the applicant determine:
 - whether or not HERS verification is required,
 - what HERS tests and compliance forms are required
- It provides on-line tracking of the process for all parties.
- It will also generate a CF1R appropriate to the project.
- The HERS Provider charges a small fee and not all projects are required to be registered with a HERS provider.

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The Process – HVAC Alterations

- Only projects that require HERS verification are *required* to be registered with a HERS Provider.
- This includes any alteration that involves the installation or replacement of the following:
 - A/C condenser
 - A/C coil
 - Package unit
 - Air handler (furnace, fan coil, etc.)
 - Any refrigerant containing component
 - More than 40’ of ducts

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The Process – HVAC Alterations

- Exceptions to the requirement for **duct sealing (and HERS duct testing)** include:
 - Duct systems that are insulated or sealed with **asbestos**
 - Duct systems that have been **previously tested and verified** for duct leakage
 - Duct systems with **less than 40 feet of ducts outside of the insulated shell of the building**

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The Process – HVAC Alterations

- Exceptions to the requirement for **refrigerant charge** verification by a HERS rater include:
 - Project is not in climate zones 2, 8-15.
 - Factory charged package units

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The Process – HVAC Alterations

- When a permit applicant submits a **handwritten** CF1R-ALT-04 for an HVAC alteration, first determine if the CF1R indicates that HERS verification is needed.
 - If it does, then they will *eventually* have to register the project and the registry will guide the process.
 - If it does not, some effort should go into determining if the project is *correctly* described.
 - These forms are often filled out wrong. Why not let the registry do it?

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The Process – HVAC Alterations

- Residential Compliance Manual Appendix E flow charts can be used to determine if no HERS rater is truly required.
- Note that if a HERS rater is not required, the exceptions shown below should be field verified by the building inspector.
 - Ducts are insulated or sealed with asbestos.
 - Less than 40 of ducts outside of conditioned space.
 - Factory charged package unit.

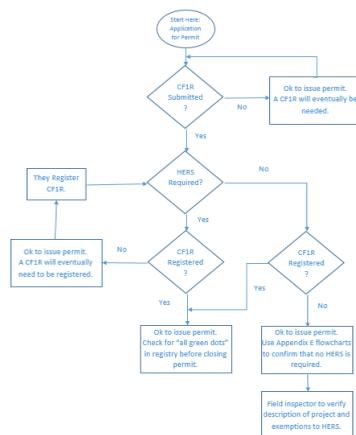
69

The Ideal Process – HVAC Alterations

1. HVAC contractor bids project
2. Project is entered into registry, registry says what tests are required
3. CF1R-ALT-02 generated and signed on-line
4. Get permit
5. Install equipment
6. Complete and sign CF2Rs on-line
7. HERS Tests
8. Complete and sign CF3Rs on-line
9. Inspections
10. Done

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The Process – HVAC Alterations

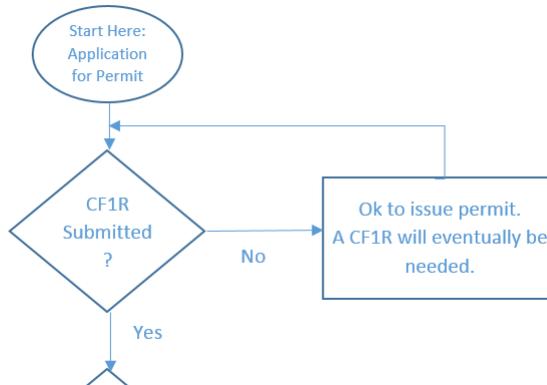


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The Process – HVAC Alterations

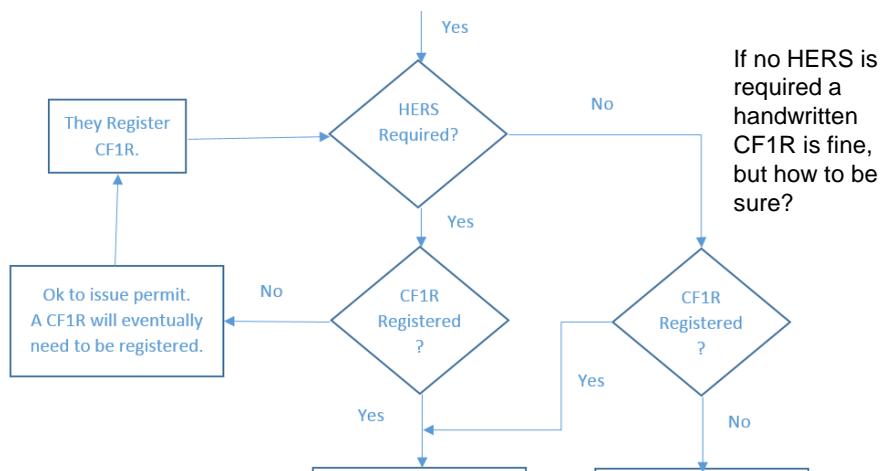
The energy code does say that a permit can be issued without a CF1R, but it is risky for the homeowners.

Since one will eventually be needed why not require one now?



72

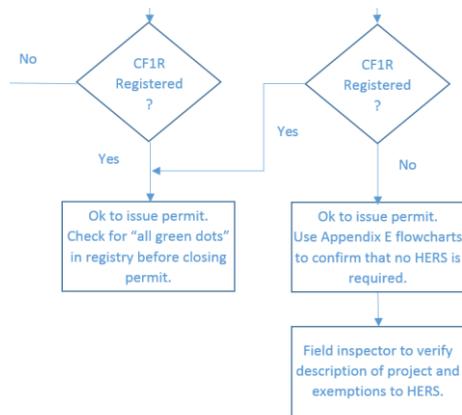
The Process – HVAC Alterations



If no HERS is required a handwritten CF1R is fine, but how to be sure?

73

The Process – HVAC Alterations

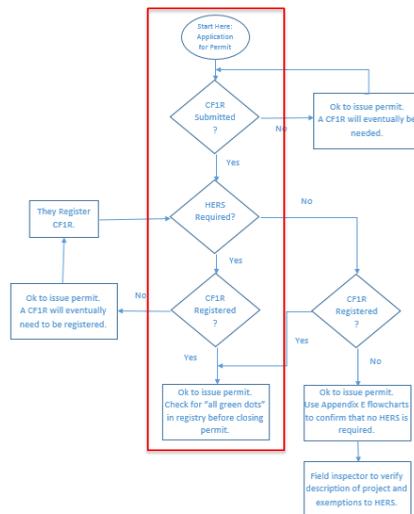


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The Process – HVAC Alterations

Keep it simple.

Require a registered CF1R for any project that may require HERS testing.



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Demo

Approved HERS Provider Categories

Provider	2013 Standards			2008 Standards		
	New Construction	Alterations	Whole House	New Construction	Alterations	Whole House
CalCERTS	Yes ^a	Yes	Yes	Yes ^a	Yes	Yes
CHEERS				Yes		
USERA		Yes ^b			Yes ^b	

^a Also approved for NSHP.

^b Third party quality control program, by Enalaysis, for residential buildings.

From: <http://www.energy.ca.gov/HERS/providers.html>

The demonstration for this training will be with the CalCERTS registry because they are the only fully certified HERS provider at this time.

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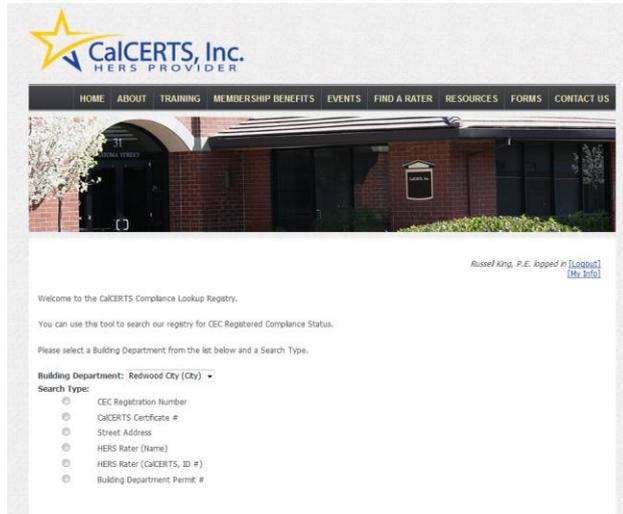
Demo



Home Page – www.calcerts.com - Log In here.

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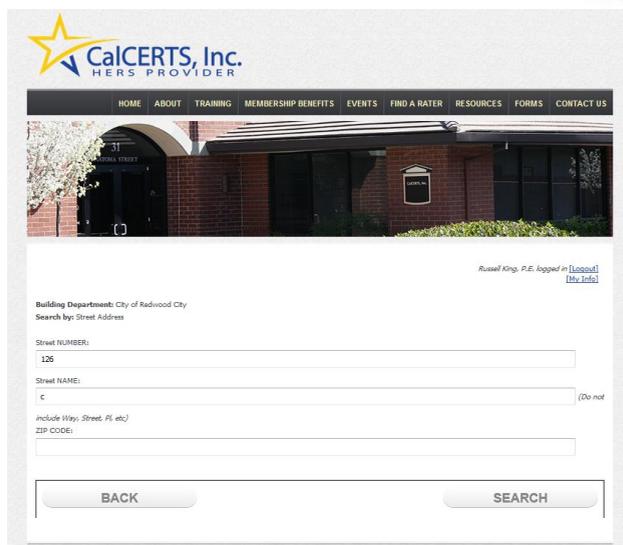
Demo



Landing Page – Search Projects from here.

78

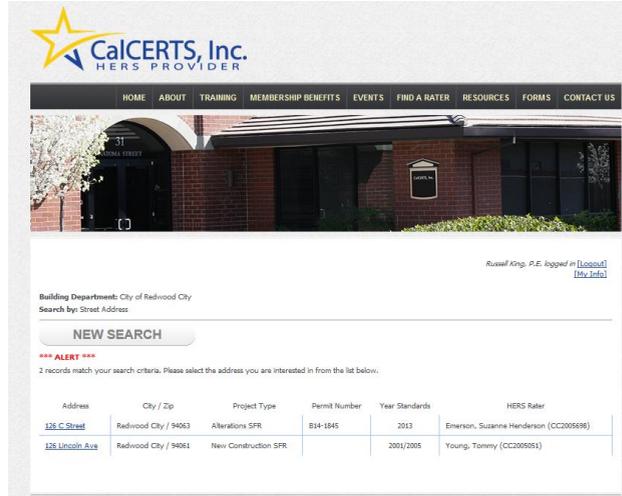
Demo



Landing Page – Search Projects from here.

79

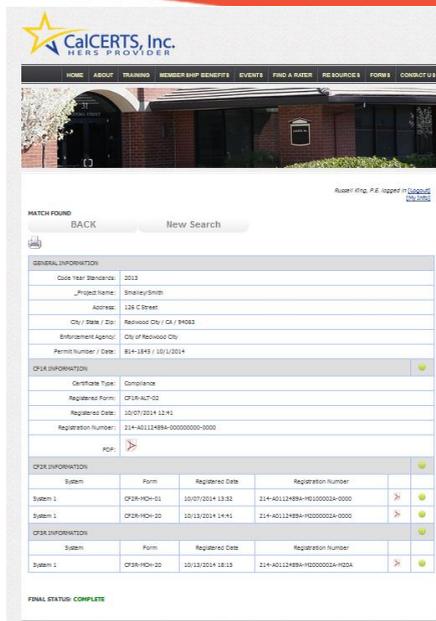
Demo



Search Results Page – Fine Tune Search Here

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Demo



Project Page – Project Complete – All Green Dots

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Demo

CalCERTS, Inc. HERS PROVIDER

HOME ABOUT TRAINING MEMBERSHIP BENEFITS EVENTS FIND A RATER RESOURCES FORMS CONTACT US

Russell King, P.E. logged in [Logout] [My Info]

Building Department: City of Redwood City
Search by: Street Address

Street NUMBER: 2564

Street NAME: (Do not include Hwy, Street, Pl, etc.)

ZIP CODE:

BACK SEARCH

New Search

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Demo

CalCERTS, Inc. HERS PROVIDER

HOME ABOUT TRAINING MEMBERSHIP BENEFITS EVENTS FIND A RATER RESOURCES FORMS CONTACT US

Russell King, P.E. logged in [Logout] [My Info]

MATCH FOUND BACK New Search

GENERAL INFORMATION

Cook Year Standard:	2013
_Project Name:	INACA TRAYTORRELL
Address:	2564 HODSON HILL AVE
City / State / Zip:	Redwood City / CA / 94061
Enforcement Agency:	City of Redwood City
Permit Number / Date:	BLA-2313 / 12/10/2014

CPSE INFORMATION

Classification Type:	Compliance
Registered Form:	CPSE-RCT-02
Registered Date:	12/02/2014 09:20
Registration Number:	214-401303434-00000000-0000

POP: [icon]

CPSE INFORMATION

System	Form	Registered Date	Registration Number	
System 1	CPSE-RCH-01	04/09/2013 13:00	214-401303434-101000003-0000	[icon]
System 1	CPSE-RCH-02	04/09/2013 13:00	214-401303434-102000004-0000	[icon]

CPSE INFORMATION

System	Form	Registered Date	Registration Number	
System 1	CPSE-RCH-02		214-401303434-110000004-HDCC	[Red Dot]

FINAL STATUS: NOT COMPLETE

Project Not Complete – Red Dot

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Demo

SAMPLE GROUP 665826

Clayton	1383 SHELL LN	94517
Redwood City	2564 ROOSEVELT AVE	94061
San Jose	2707 CLARION AVE	95148
San Jose	403 CAMILLE CIR	95134
San Jose	5280 ROMFORD DR	95124
Folsom	7222 PINE GROVE WAY	95630

Sample Group
 All will be tested by installer.
 One will be tested by rater.

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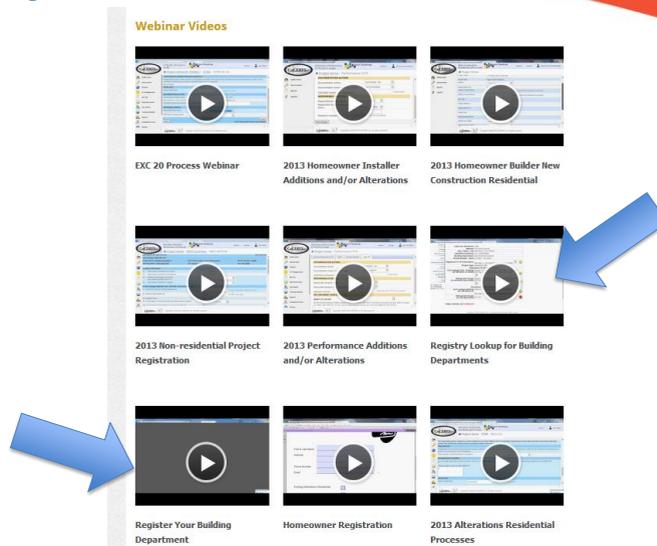
More Information



Home Page – www.calcerts.com - Log In here.

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Demo



Home Page – www.calcerts.com - Log In here.

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Class Wrap-up

Final Questions and Class Evaluation

Contact information:

- BayREN Codes & Standards Program
 - www.bayren.org/codes
 - codes@bayren.org

Updated: 01/05/2016

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