

MASTERING THE TRANSITION FROM HERS TO ECC IN 2025 ENERGY CODE

2025 Code Shift: Communicate to Comply





ANGELA GREGORY



Angel Oak Energy

Co-Founder, Angel Oak Energy

CABEC SF Mentee

CEA in Progress

ange.louisegregory@gmail.com

5 THINGS ABOUT YOUR SPEAKER

1

LIVES IN BARCELONA, WORKS CALIFORNIA HOURS

2

ONCE HAD BREAKFAST FRANCE, LUNCH MONACO, DINNER ITALY
ALL IN ONE DAY

3

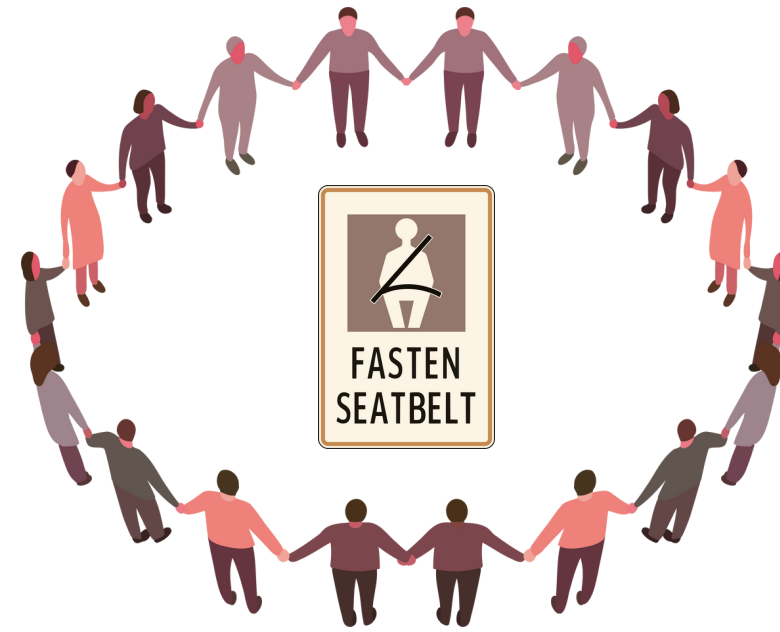
DISLIKES CORNER-CUTTERS & STARTED WHEN 4RS & 6RS WERE
HANDWRITTEN

4

SPEAKS AHRI + ART LINGO & DRAWS FLORAL PATTERNS
BUT READS CF-1RS + PLANS T24 CODE

5

MOST NERVE-RACKING THING? THIS PRESENTATION!



“

AND LET'S BE REAL, WHEN THE
2025 CODE HITS JAN 1 ,2026, THE
T24 INDUSTRY ISN'T SUDDENLY
GOING TO HOLD HANDS AND SING
KUMBAYA...



Title 24 2025 ECC CODE SHIFT HERS TO ECC

NO KUMBAYA.

JUST
COORDINATION,
COMMUNICATION

& HOPE

Credibility

19 years in Title 24 ECC/Hers + 11 months in CABEC mentoring. & lived to tell about it!

Perspective

I see both sides design and field. Both sides do not speak the same lingo.

Alignment

Paper vs. real-world compliance shouldn't be two worlds.

Both worlds need a PRE-CON meeting!

Coordination

Documentation is how 24+ people win together.
No communication + documentation leaves room for errors and revisions.

How it's going on the field for the ECC-Rater

“DUCTS IN A CONDITIONED SPACE”



A bad way to get ducts inside the conditioned space [Source: HVAC Hacks & Other Screwups]

YES, ECC RATER ALL OF
MY DUCTS ARE IN A
CONDITIONED SPACE

BUILD/HVAC INSTALLER



You are not wrong about
that they are,
But.....?????

ECC-RATER

2025 NEW HERS/ECC PROTOCOLS

“Same circus,
new tent.”

“Fail it, fix it!
project locks, no rater
swaps”

“QII: is no longer
the worst-kept secret”.

“The registry
now knows
You made it up”

“Old dogs...
now have to
learn new tricks.”

ECC replaces HERS

- Prohibits false data
- Project flagged for QA
- Disclosures to everyone

10-103.3

Rater of Record & Registry Lock

- The first rater to record a failed test becomes the **Rater of Record**.
- The **project is locked** in the registry until corrected.
- **Only** that Rater can register the passing results.

10-103.3(b)1.A.vii

Owner Information Form and Project Owner Report

- **Owner Form:** Signed & uploaded before testing.
- **Owner Report:** Rater gives list of measures and prices tests, and ECC status after completion.

10-103.3(b)1.A.vii

Conflicted Data

- Rater & Rater Co Discipline
- Flagged Data
- Disclosures to Everyone
- Rater document onsite testing and equipment for CEC audit in 2027

10-103.3(b)1.B

Quality Assurance, Discipline & Recertification

- All Raters must be re-certified by Jan 1, 2026
- Decertification for refusal of QA team on a project

10-103.3(d)5 &
10-103.3(d)7 & 8

PREPARE THE BUILD PROTECT THE CODE

Clarity

Spot risks. Prevent lockouts & 2025 changes that matter.

Control

Catch it in design, lock it before it's built& skip the revisions.

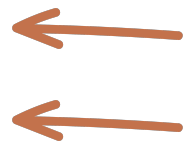
Coordination

Sync the CF-1R into plans with the people

Toolkit

Build it right. Protect it better.

SOP's +
Protection+
Documentation+
Communication



VERY IMPORTANT!
DO NOT FORGET
TO
COMMUNICATE+
DOCUMENTMENT

THIS CHECKLIST IS GOLD

www.energycodeace.com

2025 Title 24, Part 6 Checklist

Single-family Plans Examiners

Review Date: _____

Permit Applicant: _____

Permit Number: _____

Project Name: _____

Project Address: _____

Updated: _____

Phone: _____

Email: _____

Plans Examiner: _____

Phone: _____

Email: _____

This is a dynamic document that creates a custom Part 6 checklist for a project scope. This checklist can also be used to create a set of sample correction comments that may be used or modified by the plans examiner. Only tables that are expanded on the form will need to be reviewed by the Authority Having Jurisdiction. Tables that are not expanded will say "This Section Does Not Apply".

Would you like to use the sample correction comments feature? ☐ YES

The dynamic version of this checklist is available on www.EnergyCodeAce.com under the Resources Ace. For guidance on how to prioritize your Energy Code plans examination activities and specific examples of what to look for and how to address what you see in the permit set, please consider joining the online live course, [2025 Title 24, Part 6 Essentials -- Single Family Standards for Plans Examiners](#).

CF1R Compliance Scope (Check all that apply and confirm required forms are included in permit application)

Envelope

HVAC

Domestic Hot Water (DHW)

PV/Battery Storage

☐ Performance

☐ CF1R-PRF-01

☐ Prescriptive

New Home or Additions > 1,000 ft²

☐ NCB-01-E

Addition ≤ 1,000 ft²

☐ ADD-01-E-ECC

☐ ADD-02-E-non-ECC

Alteration

☐ ALT-01-E-ECC

☐ ALT-05-E-non-ECC

Support Documents

☐ ENV-02-E Area Weighted

☐ ENV-03-E SHGC

☐ ENV-04-E Cool Roof

☐ ENV-05-E Alternative Default Fenestration

☐ ENV-06-E Interior/ Exterior Insulation

☐ Performance

☐ CF1R-PRF-01

☐ Prescriptive

New Home or Additions > 1,000 ft²

☐ NCB-01-E

Addition ≤ 1,000 ft²

☐ ADD-01-E-ECC

☐ ADD-02-E-non-ECC

Alteration

☐ ALT-02-E-ECC

☐ ALT-05-E-non-ECC

Support Documents

☐ PLB-01-E Hydronic Heating

☐ Performance

☐ CF1R-PRF-01

☐ Prescriptive

New Home or Additions > 1,000 ft²

☐ NCB-01-E

Addition ≤ 1,000 ft²

☐ ADD-01-E-ECC

☐ ADD-02-E-non-ECC

Alteration

☐ ALT-01-E-ECC

☐ ALT-05-E-non-ECC

Support Documents

☐ STH-01-E Solar Water Heating

☐ Performance

☐ CF1R-PRF-01

☐ Prescriptive

New Home

☐ NCB-01-E

Lighting

Does your project scope include lighting? (Mandatory Measures)

☐

Electric Ready/Battery Energy Storage Systems (BE3S) Ready

☐ Performance

☐ CF1R-PRF-01

☐ Prescriptive

If New Home

☐ NCB-01-E

Expand All Items

Clear All

EnergyCodeAce™

Title 24, Part 6 Checklist | Single-family Plans Examiners

Page 1 of 10

Reference

Example Part 6 Plan Check Correction Comments

G1

Multiple CF1R (Certificate of Compliance) forms have been submitted for the same building feature. Please resubmit ensuring features are documented on only one CF1R form per procedures in §10-103.

G2

All pages of the CF1R (Certificate of Compliance) need to have the same "Report Generated" date and time. Please resubmit CF1R-PRF with the same date and time. *Performance method only.*

G3

One or more CF1R (Certificate of Compliance) form is not included within the plan set. Please resubmit plans with required SF1R *forms included in the plan set* submittal in §10-103.

Certificate of Compliance form is missing a required signature. Please resubmit CF1R forms with required edures in §10-103.

CF1R (Certificate of Compliance) form indicates that an ECC measure is required and has not been :C provider. Please resubmit the applicable CF1R forms registered by an approved ECC provider per §10-103.

ocumented on the CF1R forms is inconsistent with the project zip code. Please resubmit the CF1R forms e climate zone per §100.1(a). [EZ Climate Zone Search Tool](#).

ation documented on the CF1R forms is not consistent with the orientation shown on plans. Please resubmit :F1R forms with the correct building orientation.

ed floor area shown on the CF1R forms is not consistent with the areas shown on the plans. Please resubmit :F1R forms showing the corrected conditioned floor area per §100.1(a).

bove grade is not indicated on CF1R form, or the number indicated does not match plans. Please resubmit rct number of stories above grade.

s an attached ADU. A separate IAQ fan is required for each dwelling unit. Please resubmit CF1R showing welling unit.

ocumented with appropriate Certificate of Compliance form. Please resubmit the appropriate CF1R: New PRF (performance) or NCB (prescriptive); Additions to use CF1R-PRF or ADD; Alterations to use CF1R-PRF or and resubmit.

ck/ceiling/rafter roof, and/or vented attic, and/or radiant barrier is not supported properly by CF1R/Plan set. ments: For new homes/Additions > 700 ft², the roof assembly must comply to §150.1(c)1A; Additions ≤ 700 rations §150.0(a)1. Please correct and resubmit.

pe, pitch, azimuth, air space below roofing material, and/or CRRC cool roof product ratings (aged solar l emittance or SRI) is not supported properly by CF1R/Plan set. Prescriptive requirements: For new homes/ ve roof material and/or air must comply to §150.1(c)11; additions ≤ 700 ft² §150.2(a)1B; alterations correct and resubmit.

bly is not supported properly by CF1R/Plan set. Mandatory requirements: Wall assembly must meet 150.0(c) otive requirements: For new homes the wall assembly must comply to §150.1(c)1B; Additions §150.2(a)1;). Please correct and resubmit.

nibly (wall that separates conditioned from unconditioned space) is not supported properly by CF1R/Plan urements: For all projects the demising wall assembly must comply with §150.0(c). Please correct and

ily is not supported properly by CF1R/Plan set. Mandatory requirements: raised floor assembly must meet g)1. Prescriptive requirements: For new homes/Additions, the raised floor assembly must comply to ns 150.0(d). Please correct and resubmit.

is not supported properly by CF1R/Plan set. Slabs must comply with Section 150.1(c)1D, if applicable id 110.8(g) for heated slabs. Please correct and resubmit.

ed features (OI, building leakage, spray insulation high R-value, and /or verification of existing features) are 'or registered properly by CF1R/Plan set. Prescriptive requirements: For new homes/Additions > 700ft2, the st comply to 150.1(c)1E, 150.1(b)3b for Performance projects and 150.2(b)2 for Alterations. Please correct

ce™

Title 24, Part 6 Checklist | Single-family Plans Examiners

Page 10 of 13

SHOUT OUT TO
ENERGY CODE ACE
FOR THESE REFERENCES

HERE’S WHY

10-103 = **Document Consistency.**
CF-1R must match the plans and specs.

Use **Energy Code Ace’s 2025 Plan Examiner Checklist** as a pre-submittal self-audit . Check ECA website.

Pro tip: Check “No” down the list to reveal exactly what your plans need.

Align early, avoid fails, and sail through approval.

SLIDE 8

WHY THE DESIGN TEAMS NEED TO CARE ABOUT THE NEW ECC PROGRAM?

Uncoordinated plans = lockout

Design = liability + visibility

More QA. More accountability

Owner reports = full transparency.

Documentation +
communication
is key

DUCT LEAKAGE VERIFIED.

- PROVIDE 2" MERV-13 FILTER AT RETURN EACH GRILL.
- INSTALL SETBACK THERMOSTAT IN HALL.
- IAQ FAN (EXHAUST) WITH MIN 81.2 CFM FAN AIRFLOW, VENT TO OUTSIDE, HERS VERIFIED.
- LOCAL EXHAUST FANS IN BATHROOMS, DEMAND CONTROL, MIN 100 CFM, VENT TO OUTSIDE.
- KITCHEN RANGE HOOD: MIN 110 CFM (OR 50% CE) RANGE HOOD EXHAUSTED DIRECTLY TO OUTSIDE W/ MIN. 5"φ METAL DUCT. PROVIDE ECC VERIFIED HVI CERTIFIED UNIT.
- WHF-1 WHOLE HOUSE FAN (DEFAULT) SHALL BE MIN 2627 CFM & MAX 368 WATTS, EXHAUST TO ATTIC. PROVIDE MIN 3.5 SF ATTIC RELIEF NET FREE VENTILATION.
- HPWH-1 HEAT PUMP WATER HEATER NEEA, TIER III RATED. ALL HW PIPES INSULATED (NO ECC).
- ALL REFRIGERANT SYSTEMS CONTAINING A2L REFRIGERANT SHALL COMPLY WITH ASHRAE 15-2024, ASHRAE 15.2-2004 AS APPLICABLE AS WELL AS CMC AND CRC AS REQUIRED.

INCLUDE THIS TABLE FOR ALL HVAC SYSTEMS AND ONE FOR EACH QTY-THIS IS THE FIRST COMPLIANCE CHECKED BEFORE TESTING #1 FAILURES ON FIELD NOTE 47°F/17°F OUTDOOR AND BTUH

MECHANICAL SCHEDULE						
SYSTEM DESCRIPTION	HEATING			COOLING		
	LOAD	OUTPUT (BTUH)	EFFICIENCY	LOAD	OUTPUT	EFFICIENCY

DESIGN-ARCHITECT

PROPOSED PROJECT FOR:
NAVARRO RESIDENCE
1642 NEWHAVEN DRIVE
YORBA LINDA, CA 92808

REVISION	DATE	BY

2025 Single-Family Residential Mandatory Requirements S	
NOTE: Single-family residential buildings subject to the Energy Code must comply with all applicable mandatory measures, re Review the respective sections for more information.	
Space Conditioning, Water Heating, and Plumbing System:	
§ 110.0-110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, and all oth
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Tables 110.2-A th
§ 110.2(b):	Controls for Heat Pumps with Supplementary Heaters. Heat pumps with supplementary heaters
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control
§ 110.3(c):	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must
§ 110.3(c):	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (
§ 110.3(c):	Backup Heat and Ventilation. Air-source heat pump water heaters must have backup heat (inter
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnac
§ 150.0(h):	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance w

SAMPLE PLAN FOR THE WIN!

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E

(Page 4 of 14)

CF-1R FORM SHOULD SAY 2025 NOT 2022
IF PERMIT WAS APPROVED ON OR AFTER
JAN 1



ENERGY USE INTENSITY				
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
Gross EUI ¹	9.46	7.9	1.56	16.49
Net EUI ²	3.58	2.01	1.57	43.85
Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area.				

REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.48	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

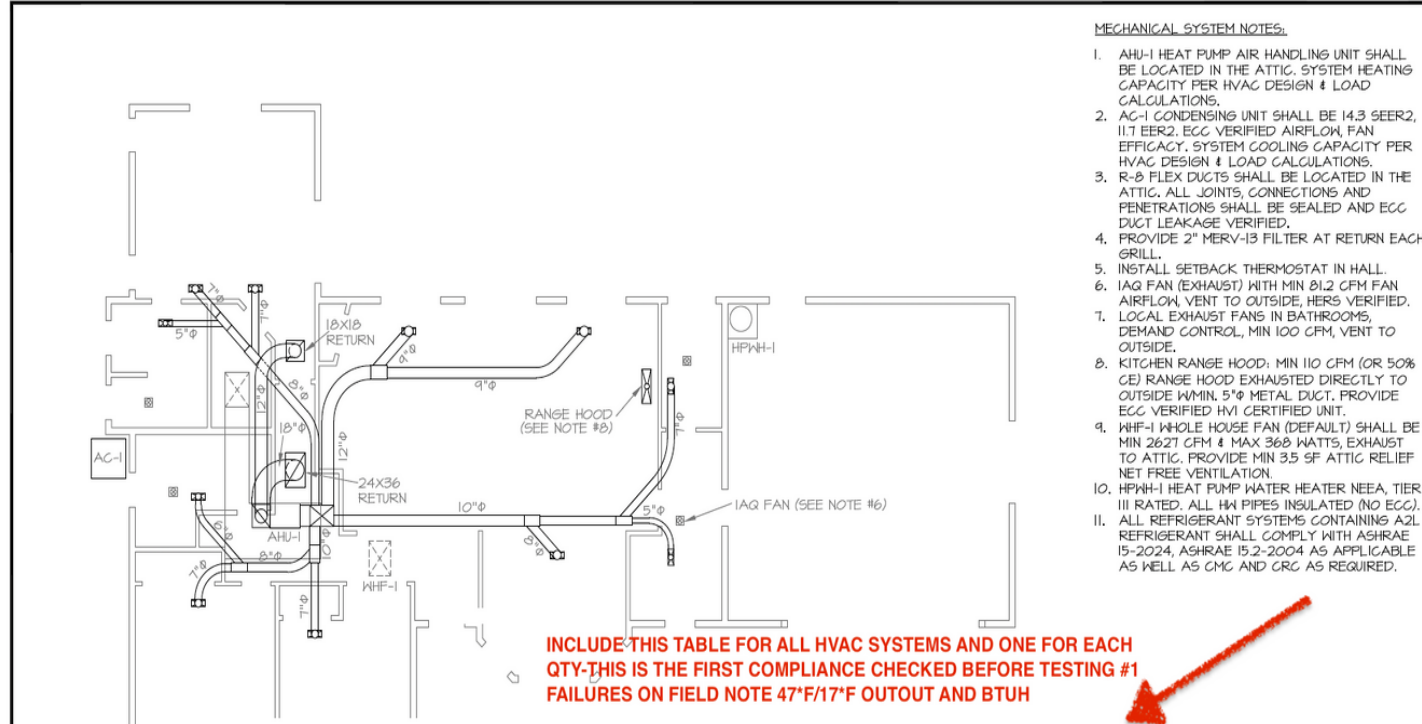
REQUIRED SPECIAL FEATURES		ALWAYS INCLUDE REQUIRED SPECIAL FEATURES ON PLANS, IN NOTES AND RA PROTOCOLS
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.		
• Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed		



HERS FEATURE SUMMARY		THIS SHOULD SAY ECC FEATURE SUMMARY
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry		
- Quality insulation installation (QII) - Indoor air quality ventilation - Kitchen range hood - Minimum Airflow - Fan Efficacy Watts/CFM - Verified heat pump rated heating capacity - Duct leakage testing		LIST ALL ECC MEASURES + REQUIREMENTS ON THE PLANS THIS IS NOT ENOUGH INFORMATION FOR THE BUILD TEAM



DO NOT SUBMIT UNREGISTERED CF-1R'S WITH
PLANS MAKE SURE THE PROJECT SAYS COMPLY



- MECHANICAL SYSTEM NOTES:**
- AHU-1 HEAT PUMP AIR HANDLING UNIT SHALL BE LOCATED IN THE ATTIC. SYSTEM HEATING CAPACITY PER HVAC DESIGN & LOAD CALCULATIONS.
 - AC-1 CONDENSING UNIT SHALL BE 14.3 SEER2, 11.7 EER2, ECG VERIFIED AIRFLOW FAN EFFICACY, SYSTEM COOLING CAPACITY PER HVAC DESIGN & LOAD CALCULATIONS.
 - R-8 FLEX DUCTS SHALL BE LOCATED IN THE ATTIC. ALL JOINTS, CONNECTIONS AND PENETRATIONS SHALL BE SEALED AND ECG DUCT LEAKAGE VERIFIED.
 - PROVIDE 2" MERV-13 FILTER AT RETURN EACH GRILL.
 - INSTALL SETBACK THERMOSTAT IN HALL.
 - IAQ FAN (EXHAUST) WITH MIN 81.2 CFM FAN AIRFLOW, VENT TO OUTSIDE, HERS VERIFIED.
 - LOCAL EXHAUST FANS IN BATHROOMS, DEMAND CONTROL, MIN 100 CFM, VENT TO OUTSIDE.
 - KITCHEN RANGE HOOD, MIN 110 CFM (OR 50% CE) RANGE HOOD EXHAUSTED DIRECTLY TO OUTSIDE W/MIN. 5" METAL DUCT, PROVIDE ECG VERIFIED HVI CERTIFIED UNIT.
 - HPWH-1 WHOLE HOUSE FAN (DEFAULT) SHALL BE MIN 2627 CFM & MAX 368 WATTS, EXHAUST TO ATTIC. PROVIDE MIN 3.5 SF ATTIC RELIEF NET FREE VENTILATION.
 - HPWH-1 HEAT PUMP WATER HEATER NEEA, TIER III RATED. ALL HW PIPES INSULATED (NO ECG).
 - ALL REFRIGERANT SYSTEMS CONTAINING A2L REFRIGERANT SHALL COMPLY WITH ASHRAE 15-2024, ASHRAE 15.2-2004 AS APPLICABLE AS WELL AS CMC AND CRC AS REQUIRED.

SYSTEM DESCRIPTION	HEATING			COOLING		
	LOAD (BTUH)	OUTPUT (BTUH)		LOAD (BTUH)	OUTPUT (BTUH)	
		47°	17°		47°	17°
SPLIT HEAT PUMP	19,503	34,000	22,600	19,443	34,000	14.3

2025 SINGLE FAMILY PLANS EXAMINER COURSE

DESIGN-IT-RIGHT
ARCHITECTS
4800 BROADVIEW, SAN FRANCISCO, CA 94132
PH: 415.398.1823 FAX: 415.398.1824

PROPOSED PROJECT FOR:
NAVARRO RESIDENCE
1842 NEWHAVEN DRIVE
YORBA LINDA, CA 92808

REVISION	DATE	BY

DRAWN BY:
RDS
DATE:
SEPT 2025
SCALE:
1/4"=1'-0"
JOB NAME:
NAVARRO
PROJECT:
RESNC2025
SHEET NO:

M1

SHOUT OUT TO
ENERGY CODE ACE
FOR THESE REFERENCES

INCLUDE OR REVISE

What Needs To Be On The Plans For Success?

Include final client-approved ECC measures + energy features

No **FUEL** or **ENERGY FEATURES** swaps Without prior approval warning (**BOLD**)

Full HVAC plan + ACCA load calc.

Include: type, fuel, qty, location, ducts, AHRI ref. List 47°F / 17°F heat capacity please

VCHP = full HVAC plan + load design + a how- to manual

Include HPWH + spec sheets+location (CRRC, NFRC, AHRI).

INCLUDE OR REVISE

What needs to be on the plans for success

Windows schedule client-approved, NFRC-tagged, name, type, size + orientation accurate.

No **FUEL** or **ENERGY FEATURES** swaps Without prior approval warning (**BOLD**).

“QII REQUIRED DO NOT COVER WALLS OR INSULATE WITHOUT RATER VERIFIED”

ECC rater before framing. QII or not

2025 CEC Mandatory Noteblocks. Specific Wins, Generic Fails and registry locks.

Support docs: 2025 BESS + Electric Ready & call out on plans + notes

ENERGY CHANGE AGREEMENT=PROTECTION

✓ Enhances compliance protection through communication.

- ✓ Sets energy scope early & avoids confusion later.

Saves time and money on revisions.

Keeps designer, builder, and rater aligned before testing

Stops rogue changes before they cost you.

A ENERGY AGREEMENT RESOURCE TO SAVE YOUR SANITY

Important Reminders

- All parties must keep the most current registered CF-1R and plan set on file.
- The ECC Rater cannot verify or sign CF-3Rs until all related CF-2Rs are registered and match the approved CF-1R.
- Unapproved deviations can trigger QA audits, project locks, and permit re-openings under ECC Provider protocols.
- The Energy Consultant's approval does not guarantee AHJ acceptance—final authority rests with the plan examiner / building department.

Review & Approval Procedure

- Submission – GC or Designer submits full package to EC before installation.
- Evaluation – EC reviews impact on performance model and determines if the project still complies.
- CF-1R Revision – If required, EC prepares and registers a Revised CF-1R, adds revision date,

TITLE 24 Energy Features 2025 DEVIATION & CHANG EORDER AGREEMENT

Agreement

Introduction

Project Name: _____

Project Address: _____

Permit #: _____ Climate Zone: _____

CF-1R Reg #: _____

Parties Involved:

Owner / Client: _____

Designer / Architect: _____

Energy Consultant (EC): _____

General Contractor (GC): _____

Subcontractor (s): _____

Effective Date: _____ Change Order #: _____

Purpose

Purpose

This Agreement defines how any deviation from the approved and registered CF-1R, plan set, or energy compliance features will be reviewed, documented, and approved before construction or installation proceeds.

Conditions That Trigger a Change Order

Purpose

This Agreement defines how any deviation from the approved and registered CF-1R, plan set, or energy compliance features will be reviewed, documented, and approved before construction or installation proceeds.

Required Documentation

To request approval, the proposing party must submit to the Energy Consultant:

- Updated manufacturer specification sheets and certifications (AHRI, NFRC, HVI, JA13, CRCC as applicable).
- Revised plan sheets and details clearly showing the proposed change.
- Written reason for the change (field condition, supply, owner preference, etc.).
- Confirmation that the change complies with Title 24 2025 code and ECC program protocols.

HOMEOWNER AWARENESS STARTS FROM THE TOP



- ✓ Educated owners = easier compliance
- Teach clients T24. Everyone wins.
- ✓ Informed clients build compliant projects.
- ✓ Explain T24 early. Avoid chaos later.
- ✓ Energy Consultants +Designers teach the measures; raters verify them
- ✓ If it's not disclosed at design, it's exposed In the Project Owner Report.

Owner / Client – 6 Essential Steps for 2025 Title 24 Project Success

- Confirm Scopes Early (Design Phase)**
 - Approve final window schedule, HVAC system, DHW, insulation R-values and PV/Battery
 - Approve all energy project scope requirements, including ECC measures, special features from the CF-1R (QII, VCHP, HPDHW, PV, Electric/BESS Ready), and all mandatory measures..
 - Know that any deviation requires a revised CF-1R and city/AHJ resubmittal.
- Provide Complete Information (Pre-Build)**
 - Provide GC and all subs the final plans, CF-1R, and manufacturer specs before bidding.
 - Require bids to match CF-1R values and include an action plan for failed tests/inspections.
 - No changes without written approval and a revised CF-1R.
 - Changing fuel type other than what is listed on Cf-1r is not allowed and must be approved.
- Authorize ECC Rater Early (Pre-Build)**
 - Authorize early: hire an independent ECC Rater after permit approval and before construction.
 - Provide the Rater the approved plans, energy feature proposals (HVAC, DHW, insulation), and build team contact list.
 - Sign the state-mandated Consumer Information Form provided by the ECC Rater before testing.
 - Request a pre duct leakage test to confirm passing at final.
- Support ECC Testing & QA (Pre & Build)**
 - Do not wait until final testing. Give the ECC Rater access at all required stages (QII, ducts, airflow, refrigerant, ventilation). Fix any failed ECC tests promptly, by the installer/builder responsible.
 - QA access by the ECC Provider is mandatory. Denying access can lead to reopened permits and full ECC re-testing.
 - Do not cover walls/ceilings/insulation until QII is signed off by an ECC Rater. (If QII is required)
- Manage Change Orders (Pre & Build)**
 - Submit all changes in writing to the Designer and Energy Consultant BEFORE making changes.
 - Revisions and compliance approval are handled only by the Designer and Energy Consultant
 - No work may proceed until the revised CF-1R complies, and is approved by AHJ, Builder and owner.
 - Unapproved equipment fuel type changes may cause the project to fall out of compliance
- Before Calling Final Inspection**
 - All ECC measures must be passed, and the CHEERS registry must show the project as Complete.
 - Check contents of report:
 - Make sure you have the final ECC forms: CF-1R, all CF-2Rs and CF-3Rs, the ECC Provider Status Report, and the ECC Rater's Project Owner Report.
 - All energy features listed on the CF-1R must be installed and operational including PV/Solar (if Req) BEFORE calling for final inspection.
 - Make sure the final completed ECC forms and Status Report are on site during final inspection.

HOMEOWNER
AWARENESS
FREE RESOURCE
IN TOOLKIT

ARE YOU PREPARED FOR
THE CHANGES 2025
TITLE 24 ENERGY CODE?
Effective Jan 1, 2026

Homeowner's
2025 T24 Welcome &
Compliance Guide

KEY TAKEAWAYS: PROTECTION THROUGH COMMUNICATION & OWNER AWARENESS

Talk early + Align often

Inform the owner & no surprises, no rework.

Keep CF-1 R, plans, and people synced

Communication protects the project

Failed tests = registry locks no more rater swaps **THANK GOODNESS!!**

Keep CF-1 R, plans, and people synced



My Grandfather Idilo

THANK YOU!

TOOLKIT FOR YOU!

Each attendee leaves
with
the 2025
Title 24 Toolkit. + plus
bonus resources not
covered here

SEE YOU ALL THE
OTHER
SIDE IN THE
ENERGY CONSULTING
+ DESIGN WORLD



**2025
T24 ECC
TOOLKIT**

[HTTPS://STAN.STORE/ANGELOAKENERGY](https://stan.store/angeloakenergy)

Email With Questions About T24
Energy Calcs & ECC
I will happy
to answer them!

ANGELA GREGORY



Angel Oak Energy

Co-Founder, Angel Oak Energy
Title 24 ECC / HERS Professional
2025 CABEC CEA Mentee
(CEA Certification in Progress)
ange.louiseregory@gmail.com
[LinkedIn](#)
angeloakenergy.com

THANK YOU CABEC!

A huge thank-you to CABEC for giving a mentee the mic and the chance to speak. This experience and the CABEC Mentoring Program, has been a game-changer. To Gina Rodda I honestly don't know what the industry will do when you retire. I've never learned so much from one person.

Your clarity, patience, and passion for code are unmatched & to every CABEC volunteer, Luke, Michelle, Steve, Doug and Alea. you're the reason this industry keeps its integrity. You make the energy world smarter, stronger, and better connected.

See you all on the Energy Consulting side.

Angela
Gregory