

DOCKETED

| | |
|-------------------------|--|
| Docket Number: | 01-AFC-17C |
| Project Title: | Inland Empire Energy Center Project Compliance |
| TN #: | 240591 |
| Document Title: | 7386 EVANS STREET RIVERSIDE |
| Description: | N/A |
| Filer: | Rahul Bhayani |
| Organization: | Rahul Bhayani |
| Submitter Role: | Applicant |
| Submission Date: | 11/13/2021 3:33:48 AM |
| Docketed Date: | 11/13/2021 |

CERTIFICATE OF COMPLIANCE

CF1R-PRF-01E

Project Name: 7386 EVEN ST.

Calculation Date/Time: 2021-11-13T15:29:55+05:30

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Calculation Description: 1 STORY

Input File Name: 7386 EVEN STREET RIVERSIDE, CA 92504 2021_11_13.ribd22

| GENERAL INFORMATION | | | | | |
|---------------------|--|----------------------|----|-----------------------------------|-----------------------|
| 01 | Project Name | 7386 EVEN ST. | | | |
| 02 | Run Title | 1 STORY | | | |
| 03 | Project Location | 7286 EVEN ST. | | | |
| 04 | City | RIVERSIDE,CALIFORNIA | 05 | Standards Version | 2022 |
| 06 | Zip code | 92504 | 07 | Software Version | CBECC-Res 2022.0.5 RV |
| 08 | Climate Zone | 10 | 09 | Front Orientation (deg/ Cardinal) | 90 |
| 10 | Building Type | Single family | 11 | Number of Dwelling Units | 1 |
| 12 | Project Scope | NewConstruction | 13 | Number of Bedrooms | 4 |
| 14 | Addition Cond. Floor Area (ft ²) | 0 | 15 | Number of Stories | 1 |
| 16 | Existing Cond. Floor Area (ft ²) | n/a | 17 | Fenestration Average U-factor | 0.3 |
| 18 | Total Cond. Floor Area (ft ²) | 1690 | 19 | Glazing Percentage (%) | 12.07% |
| 20 | ADU Bedroom Count | n/a | 21 | ADU Conditioned Floor Area | n/a |
| 22 | Is Natural Gas Available? | Yes | | | |

| COMPLIANCE RESULTS | |
|--------------------|---|
| 01 | Building Complies with Computer Performance |
| 02 | This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. |
| 03 | This building incorporates one or more Special Features shown below |

Not useable for Compliance

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| ENERGY DESIGN RATING | | | | |
|--|-------------------------------|--------------------------|-------------------------------|--------------------------|
| | Energy Design Ratings | | Compliance Margins | |
| | Efficiency ¹ (EDR) | Total ² (EDR) | Efficiency ¹ (EDR) | Total ² (EDR) |
| Standard Design | 52.3 | 36.3 | | |
| Proposed Design | 43.7 | 22 | 8.6 | 14.3 |
| RESULT: ³ COMPLIES | | | | |
| 1: Efficiency EDR includes improvements to the building envelope and more efficient equipment | | | | |
| 2: Total EDR includes efficiency and demand response measures such as photovoltaic (PV) systems and batteries | | | | |
| 3: Building complies when efficiency and total compliance margins are greater than or equal to zero | | | | |
| <ul style="list-style-type: none"> Standard Design PV Capacity: 2.70 kWdc Proposed PV kWh output exceeds proposed electricity use by 15% which may violate NEM rules. Contact local utility. | | | | |

| ENERGY USE SUMMARY | | | | |
|---------------------------------------|-----------------|-----------------|-------------------|---------------------|
| Energy Use (kTDV/ft ² -yr) | Standard Design | Proposed Design | Compliance Margin | Percent Improvement |
| Space Heating | 11.19 | 6.2 | 4.99 | 44.6 |
| Space Cooling | 25.97 | 18.73 | 7.24 | 27.9 |
| IAQ Ventilation | 4.2 | 4.2 | 0 | 0 |
| Water Heating | 24.8 | 26.17 | -1.37 | -5.5 |
| Self Utilization/Flexibility Credit | n/a | 0 | 0 | n/a |
| Compliance Energy Total | 66.16 | 55.3 | 10.86 | 16.4 |

| REQUIRED PV SYSTEMS - SIMPLIFIED | | | | | | | | | | | |
|----------------------------------|-----------|-------------|------------|-------------------|-------|---------------|------------|-------------------|-----------------|-------------------|-------------------------|
| 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 (%) |
| 3 | NA | Premium | Fixed | Microinverters | false | 170 | Degrees | 22.62 | 5 | 96 | 100 |

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| ENERGY DESIGN RATING BATTERY INPUTS | | | | | |
|-------------------------------------|----------------|---------------------|--------------------|------------------------|--------------------|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Control | Capacity (kWh) | Charging Efficiency | Rate (kW)Rate (kW) | Discharging Efficiency | Rate (kW)Rate (kW) |
| Basic | 5 | 0.95 | n/a | 0.95 | n/a |

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV System: 3 kWdc
- PV module type: Premium
- PV power electronics: Microinverters
- Battery System: 5 kWh
- Cool roof
- Insulation above roof deck
- Window overhangs and/or fins
- Slab Edge Insulation

HERS 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

Building-level Verifications:

- Building air leakage/reduced infiltration
- Indoor air quality ventilation
- Kitchen range hood
- High R-value Spray Foam Insulation

Cooling System Verifications:

- Minimum Airflow
- Verified SEER
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM

Heating System Verifications:

- -- None --

HVAC Distribution System Verifications:

- Duct leakage testing

Domestic Hot Water System Verifications:

- Compact distribution system expanded credit

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| BUILDING - FEATURES INFORMATION | | | | | | |
|---------------------------------|---|--------------------------|--------------------|-----------------|---------------------------------------|---------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Project Name | Conditioned Floor Area (ft ²) | Number of Dwelling Units | Number of Bedrooms | Number of Zones | Number of Ventilation Cooling Systems | Number of Water Heating Systems |
| 7386 EVEN ST. | 1690 | 1 | 4 | 1 | 0 | 1 |

| ZONE INFORMATION | | | | | | |
|------------------|-------------|------------------|------------------------------------|---------------------|------------------------|------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Zone Name | Zone Type | HVAC System Name | Zone Floor Area (ft ²) | Avg. Ceiling Height | Water Heating System 1 | Water Heating System 2 |
| CONDITONED | Conditioned | HVAC System | 1690 | 8 | DHW System | N/A |

| OPAQUE SURFACES | | | | | | | |
|-----------------------|------------|---------------------|---------|-------------|-------------------------------|---|------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft ²) | Tilt (deg) |
| FRONT | CONDITONED | R15/4 Exterior Wall | 90 | Front | 270 | 61 | 90 |
| RIGHT | CONDITONED | R15/4 Exterior Wall | 0 | Right | 550 | 79 | 90 |
| BACK | CONDITONED | R15/4 Exterior Wall | 270 | Back | 270 | 53 | 90 |
| LEFT | CONDITONED | R15/4 Exterior Wall | 180 | Left | 550 | 95 | 90 |
| Ceiling (below attic) | CONDITONED | R38 Ceiling | n/a | n/a | 1690 | n/a | n/a |

| ATTIC | | | | | | | |
|-------|--------------|------------|---------------------|------------------|----------------|-----------------|-----------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Construction | Type | Roof Rise (x in 12) | Roof Reflectance | Roof Emittance | Radiant Barrier | Cool Roof |
| Attic | Tile Roof | Ventilated | 2 | 0.2 | 0.85 | No | Yes |

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| FENESTRATION / GLAZING | | | | | | | | | | | | | |
|------------------------|--------|---------|-------------|---------|------------|-------------|-------|-------------------------|----------|-----------------|------|-------------|------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| Name | Type | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft ²) | U-factor | U-factor Source | SHGC | SHGC Source | Exterior Shading |
| N-Window | Window | FRONT | Front | 90 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| N-Window -2 | Window | FRONT | Front | 90 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| W-Window | Window | RIGHT | Right | 0 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| W-Window -2 | Window | RIGHT | Right | 0 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| W-Window -3 | Window | RIGHT | Right | 0 | 3 | 4 | 1 | 12 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| S-Window | Window | BACK | Back | 270 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window | Window | LEFT | Left | 180 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| W-Window -4 | Window | RIGHT | Right | 0 | 3 | 2 | 1 | 6 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| S-Window-2 | Window | BACK | Back | 270 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| S-Window-3 | Window | BACK | Back | 270 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| S-Window-4 | Window | BACK | Back | 270 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window -2 | Window | LEFT | Left | 180 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window -3 | Window | LEFT | Left | 180 | 3 | 2 | 1 | 6 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window -4 | Window | LEFT | Left | 180 | 5 | 4 | 1 | 20 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window -5 | Window | LEFT | Left | 180 | 2 | 4 | 1 | 8 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |
| E-Window -6 | Window | LEFT | Left | 180 | 4 | 3 | 1 | 12 | 0.3 | NFRC | 0.23 | NFRC | Bug Screen |

| OPAQUE DOORS | | | |
|-----------------------|------------------|-------------------------|----------|
| 01 | 02 | 03 | 04 |
| Name | Side of Building | Area (ft ²) | U-factor |
| MAIN DOOR | FRONT | 21 | 0.2 |
| LAUNDRY DOOR | RIGHT | 21 | 0.2 |
| BACK DOOR | BACK | 21 | 0.2 |
| KITCHEN & DINING DOOR | LEFT | 21 | 0.2 |

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| SLAB FLOORS | | | | | | | |
|---------------|-------------|-------------------------|----------------|-------------------------------|-------------------------------|-------------------|--------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Zone | Area (ft ²) | Perimeter (ft) | Edge Insul. R-value and Depth | Edge Insul. R-value and Depth | Carpeted Fraction | Heated |
| Slab On Grade | CONDITIONED | 1690 | 185 | R-15 | 24 | 100% | No |

| OPAQUE SURFACE CONSTRUCTIONS | | | | | | | |
|------------------------------|------------------------|---------------------|--|----------------------|--|----------|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Construction Name | Surface Type | Construction Type | Framing | Total Cavity R-value | Interior / Exterior Continuous R-value | U-factor | Assembly Layers |
| R15/4 Exterior Wall | Exterior Walls | Wood Framed Wall | 2x4 @ 24 in. O. C. | R-0 | R-15 / R-3 | 0.048 | Inside Finish: Gypsum Board Sheathing / Insulation: R-15 Sheathing Cavity / Frame: no insul. / 2x4 Sheathing / Insulation: R-3 Sheathing Exterior Finish: 3 Coat Stucco |
| Tile Roof | Attic Roofs | Wood Framed Ceiling | 2x4 Top Chord of Roof Truss @ 24 in. O. C. | R-0 | None / R-19 | 0.038 | Roofing: Green Hybrid Roofing Tile Tile Gap: ENSOPRO insulation Above Deck Insulation: R-19 Sheathing Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 Top Chrd |
| R38 Ceiling | Ceilings (below attic) | Wood Framed Ceiling | 2x4 Bottom Chord of Truss @ 24 in. O. C. | R-38 | None / None | 0.025 | Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Btm Chrd Inside Finish: Gypsum Board |

| BUILDING ENVELOPE - HERS VERIFICATION | | | |
|---------------------------------------|------------------------------------|-------------------------------|-------|
| 01 | 02 | 03 | 04 |
| Quality Insulation Installation (QII) | High R-value Spray Foam Insulation | Building Envelope Air Leakage | CFM50 |
| Not Required | Required | Required | 991.5 |

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| WATER HEATING SYSTEMS | | | | | | |
|-----------------------|--------------------------|------------------------------|-----------------------|----------------------|----------------------|----------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Name | System Type | Distribution Type | Water Heater Name (#) | Solar Heating System | Compact Distribution | HERS Verification |
| DHW System | Domestic Hot Water (DHW) | Standard Distribution System | Water Heater (1) | n/a | None | DHW System -hers-dhw |

| WATER HEATERS | | | | | | | | | | | |
|---------------|----------------------|-------------------------------------|------------|-----------------|-----------------------------|-----------------------|-----------------------------------|------------------------------|-----------------------------|-------------------------------|------------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Name | Heating Element Type | Tank Type | # of Units | Tank Vol. (gal) | Energy Factor or Efficiency | Input Rating or Pilot | Tank Insulation R-value (Int/Ext) | Standby Loss or Recovery Eff | 1st Hr. Rating or Flow Rate | NEEA Heat Pump Brand or Model | Tank Location or Ambient Condition |
| Water Heater | Gas | Residential-Duty Commercial Storage | 1 | 29 | 0.71-UEF | 76000-Btu/Hr | 0 | 90 | 51 gal | n/a | n/a |

| WATER HEATING - COMPACT DISTRIBUTION | | | | | |
|--------------------------------------|---------------------------|---|---|--|-------------------|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit type | Water Heating System Name | Master Bath distance of furthest fixture to Water Heater (ft) | Kitchen distance of furthest fixture to Water Heater (ft) | Furthest Third furthest fixture to Water Heater (ft) | HERS Verification |
| Dwelling | DHW System | n/a | n/a | n/a | Expanded Credit |

| WATER HEATING - HERS VERIFICATION | | | | | | | |
|-----------------------------------|-----------------|-----------------|----------------------|---------------------------|-----------------------|--------------------------|----------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | Pipe Insulation | Parallel Piping | Compact Distribution | Compact Distribution Type | Recirculation Control | Central DHW Distribution | Shower Drain Water Heat Recovery |
| DHW System - 1/1 | Not Required | Not Required | Required | None | Not Required | Not Required | Not Required |

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| SPACE CONDITIONING SYSTEMS | | | | | | | | | | |
|----------------------------|----------------------------------|-------------------|-------------------|------------|---------------------|--------------------------|--------|-----------------------------|-------------------------|-------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating Unit Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooling Equipment Count |
| HVAC System | Heating and cooling system other | FURNACE | Cooling System | Fan System | Distribution System | Setback | New | NA | 1 | 1 |

| HVAC - HEATING UNIT TYPES | | | |
|---------------------------|---------------------|-----------------|--------------------|
| 01 | 02 | 03 | 04 |
| Name | System Type | Number of Units | Heating Efficiency |
| FURNACE | Central gas furnace | 1 | AFUE-96 |

| HVAC - COOLING UNIT TYPES | | | | | | | |
|---------------------------|------------------|-----------------|---------------------|-----------------|--------------------|-----------------------|---------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Name | System Type | Number of Units | Efficiency EER/CEER | Efficiency SEER | Zonally Controlled | Mult-speed Compressor | HERS Verification |
| Cooling System | Central split AC | 1 | 13 | 16 | Not Zonal | Single Speed | Cooling System -hers-cool |

| HVAC COOLING - HERS VERIFICATION | | | | | |
|----------------------------------|------------------|----------------|--------------|---------------|-----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Name | Verified Airflow | Airflow Target | Verified EER | Verified SEER | Verified Refrigerant Charge |
| Cooling System -hers-cool | Required | 400 | Not Required | Required | Required |

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| HVAC - DISTRIBUTION SYSTEMS | | | | | | | | | | | |
|-----------------------------|---------------------|--------------|-------------------|--------|---------------|--------|--------------|--------|----------------|-------------------|--------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| | | | Duct Ins. R-value | | Duct Location | | Surface Area | | | | |
| Name | Type | Design Type | Supply | Return | Supply | Return | Supply | Return | Bypass Duct | Duct Leakage | HERS Verification |
| Distribution System | Unconditioned attic | Non-Verified | R-8 | R-8 | Attic | Attic | n/a | n/a | No Bypass Duct | Sealed and Tested | Distribution System -hers-dist |

| HVAC DISTRIBUTION - HERS VERIFICATION | | | | | | | | |
|---------------------------------------|---------------------------|-------------------------|------------------------|----------------------|--------------|---------------------|-------------------------|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name | Duct Leakage Verification | Duct Leakage Target (%) | Verified Duct Location | Verified Duct Design | Buried Ducts | Deeply Buried Ducts | Low-leakage Air Handler | Low Leakage Ducts Entirely in Conditioned Space |
| Distribution System -hers-dist | Yes | 5.0 | Not Required | Not Required | Not Required | Credit not taken | Not Required | No |

| HVAC - FAN SYSTEMS | | | |
|--------------------|----------|-----------------------|----------------------|
| 01 | 02 | 03 | 04 |
| Name | Type | Fan Power (Watts/CFM) | Name |
| Fan System | HVAC Fan | 0.34 | Fan System -hers-fan |

| HVAC FAN SYSTEMS - HERS VERIFICATION | | |
|--------------------------------------|------------------------|-----------------------------------|
| 01 | 02 | 03 |
| Name | Verified Fan Watt Draw | Required Fan Efficacy (Watts/CFM) |
| Fan System -hers-fan | Required | 0.34 |

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| IAQ (INDOOR AIR QUALITY) FANS | | | | | |
|-------------------------------|---------|---------------|--------------|--------------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SRE IAQ Recovery Effectiveness - SRE |
| SFam IAQVentRpt | 87 | 0.35 | Default | | n/a |

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| DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | |
|--|---|
| 1. I certify that this Certificate of Compliance documentation is accurate and complete. | |
| Documentation Author Name: | Documentation Author Signature: |
| Company: | Signature Date: |
| Address: | CEA/ HERS Certification Identification (If applicable): |
| City/State/Zip: | Phone: |
| RESPONSIBLE PERSON'S DECLARATION STATEMENT | |
| I certify the following under penalty of perjury, under the laws of the State of California: | |
| <ol style="list-style-type: none"> 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. | |
| Responsible Designer Name: | Responsible Designer Signature: |
| Company: | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Report Version: 2019.1.300
Schema Version: rev 20200901

Report Generated: 2021-11-13 02:01:24