## Rule-Making Order

**Emergency Rule Only**

### CR-103E (December 2017)

(Implements RCW 34.05.350 and 34.05.360)

### Agency:
Washington State Building Code Council

### Effective date of rule:
- Emergency Rules
  - ☒ Immediately upon filing.
  - ☐ Later (specify) _____

### Any other findings required by other provisions of law as precondition to adoption or effectiveness of rule?
- ☐ Yes  ☒ No  If Yes, explain:

### Purpose:
To modify requirements in WAC 51-11R-40621 to provide an alternative credit path in lieu of a 11.0 HSPF ducted heat pump.

### Citation of rules affected by this order:
- **New:**
- **Repealed:** WAC 51-11R-40621
- **Suspended:**

### Statutory authority for adoption:
- RCW 19.27A-045

### Other authority:
- RCW 19.27A.020

### Emergency Rule

Under RCW 34.05.350 the agency for good cause finds:
- ☒ That immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.
- ☐ That state or federal law or federal rule or a federal deadline for state receipt of federal funds requires immediate adoption of a rule.

### Reasons for this finding:
The State Building Code Council was petitioned by the industry to provide a temporary alternative ducted heat pump efficiency credit option with the same 1.5 credit value. Supply chain issues have affected every manufacturer and qualifying components and systems have become unavailable in sufficient quantity to keep up with market demand. The Council worked with the industry and other stakeholders to provide an option using a 10.0 HSPF ducted heat pump in conjunction with one of four additional measures.

### Note:
If any category is left blank, it will be calculated as zero.

No descriptive text.

### Count by whole WAC sections only, from the WAC number through the history note.
A section may be counted in more than one category.

### The number of sections adopted in order to comply with:

<table>
<thead>
<tr>
<th>Category</th>
<th>New</th>
<th>Amended</th>
<th>Repealed</th>
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<tbody>
<tr>
<td>Federal statute</td>
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<td>Federal rules or standards</td>
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<td>Recently enacted state statutes</td>
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</table>
The number of sections adopted at the request of a nongovernmental entity:

<table>
<thead>
<tr>
<th>New</th>
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The number of sections adopted on the agency’s own initiative:

<table>
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<tr>
<th>New</th>
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The number of sections adopted in order to clarify, streamline, or reform agency procedures:

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<tr>
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<th>Amended</th>
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The number of sections adopted using:

<table>
<thead>
<tr>
<th>Negotiated rule making:</th>
<th>New</th>
<th>Amended</th>
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<tr>
<th>Pilot rule making:</th>
<th>New</th>
<th>Amended</th>
<th>Repealed</th>
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<tr>
<th>Other alternative rule making:</th>
<th>New</th>
<th>Amended</th>
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**Date Adopted:** June 29, 2022

**Name:** Tony Doan

**Title:** Council Chair

**Signature:**

![Signature Image]
### WAC 51-11R-40621  Table R406.3—Energy credits.

**TABLE 406.3**  
**ENERGY CREDITS**

<table>
<thead>
<tr>
<th>OPTION</th>
<th>DESCRIPTION</th>
<th>CREDIT(S)</th>
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<tbody>
<tr>
<td></td>
<td><strong>All Other</strong></td>
<td><strong>Group R-2</strong></td>
</tr>
<tr>
<td><strong>1. EFFICIENT BUILDING ENVELOPE OPTIONS</strong></td>
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</tbody>
</table>
| Only one option from Items 1.1 through 1.7 may be selected in this category. Compliance with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative, where \([1-(Proposed UA/Target UA)] > the required %UA reduction\)

| 1.1 | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
|     | Vertical fenestration U = 0.24. | 0.5 | 0.5 |
| 1.2 | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
|     | Vertical fenestration U = 0.20. | 1.0 | 1.0 |
| 1.3 | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
|     | Vertical fenestration U = 0.28  
|     | Floor R-38  
|     | Slab on grade R-10 perimeter and under entire slab  
|     | Below grade slab R-10 perimeter and under entire slab  
| or | Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%. | 0.5 | N/A |
| 1.4 | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
|     | Vertical fenestration U = 0.25  
|     | Wall R-21 plus R-4 ci  
|     | Floor R-38  
|     | Basement wall R-21 int plus R-5 ci  
|     | Slab on grade R-10 perimeter and under entire slab  
|     | Below grade slab R-10 perimeter and under entire slab  
| or | Compliance based on Section R402.1.4: Reduce the Total conductive UA by 15%. | 1.0 | 1.0 |
| 1.5 | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
|     | Vertical fenestration U = 0.22  
|     | Ceiling and single-rafter or joist-vaulted R-49 advanced  
|     | Wood frame wall R-21 int plus R-12 ci  
|     | Floor R-38  
|     | Basement wall R-21 int plus R-12 ci  
|     | Slab on grade R-10 perimeter and under entire slab  
|     | Below grade slab R-10 perimeter and under entire slab  
| or | Compliance based on Section R402.1.4: Reduce the Total conductive UA by 30%. | 2.0 | 1.5 |
### Prescriptive compliance is based on Table R402.1.1 with the following modifications:
- **Vertical fenestration U = 0.18**
- **Ceiling and single-rafter or joist-vaulted R-60 advanced**
- **Wood frame wall R-21 int plus R-16 ci**
- **Floor R-48**
- **Basement wall R-21 int plus R-16 ci**
- **Slab on grade R-20 perimeter and under entire slab**
- **Below grade slab R-20 perimeter and under entire slab**
- **or**
- Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%.

### Advanced framing and raised heel trusses or rafters
- **Vertical Glazing U-0.28**
- **R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic**
- **and**
- **R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.**

### 2. AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS

Only one option from Items 2.1 through 2.4 may be selected in this category.

<table>
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<th>OPTION</th>
<th>DESCRIPTION</th>
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| 1.6    | Prescriptive compliance is based on Table R402.1.1 with the following modifications:  
- Vertical fenestration U = 0.18  
- Ceiling and single-rafter or joist-vaulted R-60 advanced  
- Wood frame wall R-21 int plus R-16 ci  
- Floor R-48  
- Basement wall R-21 int plus R-16 ci  
- Slab on grade R-20 perimeter and under entire slab  
- Below grade slab R-20 perimeter and under entire slab  
- or  
- Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%. | All Other: 3.0  
Group R-2: 2.0 |
| 1.7    | Advanced framing and raised heel trusses or rafters  
- Vertical Glazing U-0.28  
- R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic  
- and  
- R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves. | All Other: 0.5  
Group R-2: 0.5 |
| 2.1    | Compliance based on R402.4.1.2:  
- Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals  
- or  
- For R-2 Occupancies, optional compliance based on Section R402.4.1.2:  
- Reduce the tested air leakage to 0.3 cfm/ft$^2$ maximum at 50 Pascals  
- and  
- All whole house ventilation requirements as determined by Section M1505.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furnace fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode.  
- To qualify to claim this credit, the building permit drawings shall specify the option being selected, the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation. | All Other: 0.5  
Group R-2: 1.0 |
| 2.2    | Compliance based on Section R402.4.1.2:  
- Reduce the tested air leakage to 2.0 air changes per hour maximum at 50 Pascals  
- or  
- For R-2 Occupancies, optional compliance based on Section R402.4.1.2:  
- Reduce the tested air leakage to 0.25 cfm/ft$^2$ maximum at 50 Pascals  
- and  
- All whole house ventilation requirements as determined by Section M1505.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65.  
- To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system. | All Other: 1.0  
Group R-2: 1.5 |
### option 2.3
Compliance based on Section R402.4.1.2:
Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pascals

or
For R-2 Occupancies, optional compliance based on Section R402.4.1.2:
Reduce the tested air leakage to 0.20 cfm/ft² maximum at 50 Pascals

and
All whole house ventilation requirements as determined by Section M1505.3 of the *International Residential Code* or Section 403.8 of the *International Mechanical Code* shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75.

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.

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<tr>
<th>OPTION</th>
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<tr>
<td>2.3</td>
<td>Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pascals <strong>or</strong> For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.20 cfm/ft² maximum at 50 Pascals <strong>and</strong> All whole house ventilation requirements as determined by Section M1505.3 of the <em>International Residential Code</em> or Section 403.8 of the <em>International Mechanical Code</em> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.</td>
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### option 2.4
Compliance based on Section R402.4.1.2:
Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals

or
For R-2 Occupancies, optional compliance based on Section R402.4.1.2:
Reduce the tested air leakage to 0.15 cfm/ft² maximum at 50 Pascals

and
All whole house ventilation requirements as determined by Section M1505.3 of the *International Residential Code* or Section 403.8 of the *International Mechanical Code* shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.80. Duct installation shall comply with Section R403.3.7.

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.

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<th>OPTION</th>
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<tr>
<td>2.4</td>
<td>Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals <strong>or</strong> For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.15 cfm/ft² maximum at 50 Pascals <strong>and</strong> All whole house ventilation requirements as determined by Section M1505.3 of the <em>International Residential Code</em> or Section 403.8 of the <em>International Mechanical Code</em> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.80. Duct installation shall comply with Section R403.3.7. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.</td>
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### 3. HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS
Only one option from Items 3.1 through 3.6 may be selected in this category.

<table>
<thead>
<tr>
<th>OPTION</th>
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<tr>
<td>3.1a</td>
<td>Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% <strong>or</strong> Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.</td>
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<th>OPTION</th>
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<tr>
<td>3.2a</td>
<td>Air-source centrally ducted heat pump with minimum HSPF of 9.5. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.</td>
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<th>OPTION</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>3.3a</td>
<td>Closed-loop ground source heat pump; with a minimum COP of 3.3 <strong>or</strong> Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.</td>
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<th>OPTION</th>
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<tr>
<td>3.4</td>
<td>Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.</td>
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<tr>
<td>OPTION</td>
<td>DESCRIPTION</td>
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</table>
| **3.5a**  
Option 1 | Air-source, centrally ducted heat pump with minimum HSPF of 11.0. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency. | **All Other**  
1.5  
**Group R-2**  
N/A |
| **3.5a**  
Option 2 | Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following:  
1. The system is listed on the NEEP cold climate air source heat pump database.  
2. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406.  
3. If Option 5.3 has been selected, upgrade the Tier II heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system.  
4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency. | **All Other**  
1.5  
**Group R-2**  
N/A |
| **3.6a**  
Option 5 | Ductless split system heat pumps with no electric resistance heating in the primary living areas. A ductless heat pump system with a minimum HSPF of 10 shall be sized and installed to provide heat to entire dwelling unit at the design outdoor air temperature. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency. | **All Other**  
2.0  
**Group R-2**  
3.0 |

### 4. HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS

**4.1**  
All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.6.  
For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices.  
Duct leakage shall be limited to 3 cfm per 100 square feet of conditioned floor area.  
Air handler(s) shall be located within the conditioned space. | **All Other**  
0.5  
**Group R-2**  
0.5 |
| **4.2**  
Option 4 | HVAC equipment and associated duct system(s) installation shall comply with the requirements of Section R403.3.7.  
Locating system components in conditioned crawl spaces is not permitted under this option.  
Electric resistance heat and ductless heat pumps are not permitted under this option.  
Direct combustion heating equipment with AFUE less than 80% is not permitted under this option.  
To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the location of the heating and cooling equipment and all the ductwork. | **All Other**  
1.0  
**Group R-2**  
N/A |

### 5. EFFICIENT WATER HEATING OPTIONS

Only one option from Items 5.2 through 5.6 may be selected in this category. Item 5.1 may be combined with any option.
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>5.1</td>
<td>A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all and only the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 54% if installed for unequal flow. Such units shall be rated in accordance with CSA B55.1 or IAPMO IGC 346-2017 and be so labeled. To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specifies the drain water heat recovery units and the plumbing layout needed to install it. Labels or other documentation shall be provided that demonstrates that the unit complies with the standard.</td>
<td>0.5 0.5</td>
</tr>
<tr>
<td>5.2</td>
<td>Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.80. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.</td>
<td>0.5 0.5</td>
</tr>
<tr>
<td>5.3</td>
<td>Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 or Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems or Water heater heated by ground source heat pump meeting the requirements of Option 3.3. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.</td>
<td>1.0 1.0</td>
</tr>
<tr>
<td>5.4</td>
<td>Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier I of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.</td>
<td>1.5 2.0</td>
</tr>
<tr>
<td>5.5</td>
<td>Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.</td>
<td>2.0 2.5</td>
</tr>
</tbody>
</table>
5.6 Water heating system shall include one of the following:
Electric heat pump water heater with a minimum UEF of 2.9 and utilizing a
split system configuration with the air-to-refrigerant heat exchanger located
outdoors. Equipment shall meet Section 4, requirements for all units, of the
NEEA standard *Advanced Water Heating Specification* with the UEF noted
above
or
For R-2 Occupancy, electric heat pump water heater(s), meeting the standards
for Tier III of NEEA’s advanced water heating specification and utilizing a
split system configuration with the air-to-refrigerant heat exchanger located
outdoors, shall supply domestic hot water to all units. If one water heater is
serving more than one dwelling unit, all hot water supply and recirculation
piping shall be insulated with R-8 minimum pipe insulation.
To qualify to claim this credit, the building permit drawings shall specify the
option being selected and shall specify the water heater equipment type and
the minimum equipment efficiency.

6. RENEWABLE ELECTRIC ENERGY OPTION

6.1 For each 1200 kWh of electrical generation per housing unit provided
annually by on-site wind or solar equipment a 1.0 credit shall be allowed, up
to 3 credits. Generation shall be calculated as follows:
For solar electric systems, the design shall be demonstrated to meet this
requirement using the National Renewable Energy Laboratory calculator
PVWATTs or approved alternate by the code official.
Documentation noting solar access shall be included on the plans.
For wind generation projects designs shall document annual power generation
based on the following factors:
The wind turbine power curve; average annual wind speed at the site;
frequency distribution of the wind speed at the site and height of the tower.
To qualify to claim this credit, the building permit drawings shall specify the
option being selected and shall show the photovoltaic or wind turbine
equipment type, provide documentation of solar and wind access, and include
a calculation of the minimum annual energy power production.

7. APPLIANCE PACKAGE OPTION

7.1 All of the following appliances shall be new and installed in the dwelling unit
and shall meet the following standards:
Dishwasher - Energy Star rated
Refrigerator (if provided) - Energy Star rated
Washing machine - Energy Star rated
Dryer - Energy Star rated, ventless dryer with a minimum CEF rating of 5.2.
To qualify to claim this credit, the building permit drawings shall specify the
option being selected and shall show the appliance type and provide
documentation of Energy Star compliance. At the time of inspection, all
appliances shall be installed and connected to utilities. Dryer ducts and
exterior dryer vent caps are not permitted to be installed in the dwelling unit.

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*An alternative heating source sized at a maximum of 0.5 Watts/ft² (equivalent) of heated floor area or 500 Watts, whichever is bigger, may be installed in the dwelling unit.*