

2016 RESIDENTIAL NEW CONSTRUCTION PROGRAM REQUIREMENTS AND SUBMISSION CHECKLIST

GENERAL PARTICIPATION REQUIREMENTS

To participate in the Residential New Construction (RNC) energy efficiency rebate program, dwelling units/buildings must meet technical requirements listed in the document. Applicants must submit the RNC application form prior to insulating the home. Applicants should fill out the "Initial Plan" section of the Residential New Construction Program Project Application (Application) form in its entirety.

BUILDING TYPE PARTICIPATION

- A.** The following building types are eligible for RNC program participation:
- Detached dwelling units (e.g. single family homes);
OR
 - Dwelling units in any multifamily building with 4 units or fewer;
OR
 - Dwelling units in multifamily buildings with 3 stories or fewer above-grade;
OR
 - Dwelling units in multifamily buildings with 4 or 5 stories above-grade that have their own heating, cooling and hot water systems, separate from other units, and where dwelling units occupy 90% or more of the occupiable square footage of the building. When evaluating mixed-use buildings for eligibility, exclude commercial/retail space when assessing whether the 90% threshold has been met.
- B.** Any building with a residential end-use that doesn't fall within these building-type requirements will be subject to the Multifamily Whole Building Performance Program (MWBP). Contact the utility Program Administrator for MWBP program requirements.
- B.** Dwelling units which will be constructed from the "ground-up" as well as units which will be "gut-rehabbed" or fully rehabilitated are eligible for program participation. For purposes of this program, gut-rehabbed buildings must expose all exterior walls and have a plan in place to reinsulate or for the existing insulation to meet RESNET Grade 1 standards. Additionally, the remainder of the thermal envelope (ceilings, floors, etc.) must be reinsulated or inspected to meet RESNET Grade 1 standards. Gut-rehabbed buildings must also replace all existing windows or verify that existing windows meet the current ENERGY STAR® window standards.
- C.** All homes in UI and Eversource territory, regardless of heating fuel, are eligible to receive the full rebates offered in the RNC program.

PROGRAM COMPLIANCE REQUIREMENTS FOR HERS RATINGS

A. General Requirements

- a. Homes following this path must use a RESNET-certified HERS Rater approved in Connecticut. A listing can be found on UI or Eversource's Residential New Construction web page.
- b. It is encouraged that the project's initial application is submitted to the respective utility **BEFORE** construction. The cut-off time period for submitting the initial application is before drywall is installed.
- c. Each participating dwelling unit must have its own verified REM/Rate file submitted electronically to the utility Program Administrator. The REM/Rate file must be the final version and contain a Registry ID number.
- d. The RNC program will recognize sampling procedures per RESNET Standards. Utilities will verify that the HERS Rater and their Provider are RESNET approved to conduct sampling.

B. Technical Requirements

- a. Must install whole-house mechanical ventilation that meets ASHRAE 62.2-2010 guidelines. Examples of ventilation options include exhaust only, supply only, or balanced systems. System must be tested by HERS Rater for properly configured air flow.
- b. Must install ENERGY STAR® certified lighting in at least 90% of the sockets. Please document all ENERGY STAR certified lighting installed and submit the lighting inventory sheet on page 2 of this RNC Requirements and Submission Checklist.
- c. Must have an ENERGY STAR refrigerator, clothes washer and dishwasher.
- d. In order to verify the thermal envelope, the HERS Rater is required to perform a visual inspection prior to drywall using the 2009 IECC Air Barrier and Insulation Inspection Component Criteria (Table 402.4.2). The HERS Rater must submit documentation that this inspection has been performed, either through pictures or a checklist, that verifies that the requirements have been met. The thermal envelope must be installed to RESNET Grade 1 standards.

- e. A post-construction blower door test must be conducted. Total thermal barrier air leakage must be 4 ACH50 or less for all single family homes. Non single-family homes are required to meet 0.25CFM50 per sq. ft. of enclosure surface area.
- f. If the dwelling unit contains air ducts for heating and/or cooling supply, a post-construction duct leakage test must be conducted where duct leakage to the outside cannot exceed 4CFM25 per 100SF.
- g. Heating and cooling equipment sizing must be submitted and reviewed by HERS Rater based on the 2009 International Residential Code: "M1401.3 Sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J."
- h. Single-family homes applying and qualifying for Tier 2 and 3 HERS Rating must meet the DOE Zero Energy Ready Home Consolidated Renewable Energy Ready Checklist. The RNC program removes the following requirement from the DOE Checklist, "Location, based on zip code has at least 5 kWh/m²/day average daily solar radiation based on annual solar insolation". Homes not meeting this requirement will only be eligible for Tier 1 HERS Rebates. Any unforeseen reasons that cause a project not to meet the Renewable Ready requirements can be discussed with the RNC Program Administrators for further review. Include a copy of an invoice or contract of any renewables system that is part of the project. Please refer to the follow documents for the Renewable Ready requirements: http://energy.gov/sites/prod/files/2014/07/f17/RERH%20ZERH%20Checklists_0.pdf
- i. If HERS Rater states that the REM file is Grade 1 install, with Fiberglass Batts, pictures will be required with submittal documents. At least 2 pictures with a maximum of 5 surface photos must be submitted.
- j. For tier 3 applicants, rebates will only paid for points below 50 for the HERS Index before renewables are added.

2016 RESIDENTIAL NEW CONSTRUCTION APPLICATION SUBMISSION CHECKLIST

The checklist below is intended to ensure that builders, vendors, homeowners, or other applicants of the 2016 Residential New Construction (RNC) program have included all necessary documentation and information required for rebate approval.

REQUIRED PAPERWORK:

Paperwork required to be submitted **PRIOR TO** construction:

- Applicant or HERS Rater will submit the completed Application with the "Initial Plan" indicating the "Estimated Total" rebate inclusive of all necessary signatures.
- W-9 Form
- Initial REM/Rate file, submitted electronically to Program Administrator

Paperwork required to be submitted **AFTER** construction has been completed:

- Applicant or HERS Rater will submit the completed Application with the "As Built" conditions indicating the "Installed Total" rebate requested as well as the required documentation (as applicable) outlined below:
 - Electronic REM/Rate file
 - Eversource customers: e-mail to Nick Jones at nicholas.jones@eversource.com
 - UI customers: e-mail to Jenn Parsons at jennifer.parsons@uinet.com
 - Lighting Inventory – ENERGY STAR® / CFL / LED bulbs only. **Please do not include incandescent, halogen, or other non energy-efficient lighting in this checklist.** Use provided inventory list table below.
 - HERS Rater must submit a final Home Energy Rating Certificate (HERC) after successful verification by the HERS Rater's provider.
 - All Bonus Certification documentation if applicable.

LIGHTING INVENTORY

Room Type	Total # CFL bulbs	Watts per bulb	Total # LED bulbs	Watts per bulb	Room Type	Total # CFL bulbs	Watts per bulb	Total # LED bulbs	Watts per bulb
Basement					Exterior				
Bathroom					Garage				
Bedroom					Hallway				
Closet					Kitchen				
Den/Office					Living Room				
Dining Room					Other				



Empowering you to make smart energy choices

