

# Highlights of the Changes to the ENERGY STAR Multifamily New Construction (MF NC) Program Documents since June 2018

While most of the updates made to the program requirements have been clarifications, this document summarizes the most significant changes and clarifications. Please reference the redline version of the Checklists for more details on what has changed from the previous Checklists posted in June.

## National Program Requirements – General

- Synced language with Rev09 (i.e. replaced “HERS” with “ERI” to use non-proprietary language).
- Added definitions for two-family, dwellings and townhouses.
- Confirmed that dorms and assisted living cannot participate in MF NC.
- Changed eligibility from June draft, such that a multifamily, 3 stories or less, no central systems, <20% common space, is not eligible for Certified Homes, as initially proposed.
- Townhouses can choose either program, but must use the Certified Homes Reference Design AND two notable additions in checklist just for townhouses: DLTO AND room-by-room load calcs.
- Added text to indicate the submission documents for ASHRAE & Prescriptive Path projects (that previously was only included in the MRO amendment) and info for projects seeking Designed to Earn the ENERGY STAR (DEES).
- Added reference to other MF sampling protocols (RESNET Guidelines).
- Updated the implementation timeline to clarify what options are available in each state prior/post January 1, 2021. This may get updated as states adopt more current codes.
- Removed references to California, and developed into separate Program Requirements document.

## National Program Requirements – Reference Designs

- Removed “ENERGY STAR” from the boiler requirement since the listed AFUE is no longer available as ENERGY STAR certified.
- Added the Oregon/Washington Version 1.2 Multifamily Reference Design.
- Added UEF options for electric and gas water heaters.
- Improved language in order to clarify how to apply to common spaces.

## ERI Target Procedures

- Added a 15% de-rate factor to reflect the difference between measuring compartmentalization and infiltration from the exterior. Raters will need to check whether software applies automatically or not.
- Changed the text related to dishwashers such that it is clear that the ENERGY STAR MF Reference Design always has a dishwasher with 0.66 EF, regardless of the presence of a dishwasher in the Rated Unit.
- Changed the values associated with the ENERGY STAR Clothes Washer and also clarified that the ENERGY STAR MF Reference Design always has an ENERGY STAR Clothes Washer, except if the installed clothes washer is not available as ENERGY STAR certified, such as a top-loading commercial washer or a combination all-in-one. In that case, the ENERGY STAR MF Reference Design has the same clothes washer as the Rated Unit.
- Clarified that the 90% interior lighting is 90% Tier I.

## Rater Design Review Checklist

- Added space for Rater to verify that ASHRAE modeler shows up on the online directory, once they complete orientation. Both the orientation and online directory are still being developed.

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## Rater Field Checklist

- Where returns are not ducted, and closet with AHU is on exterior wall, added a pressure test during BD test to make sure air is returned from living space, rather than outdoors. Also, modified the pressure differential test to allow a greater pressure difference for larger AHUs.
- Added the DLTO requirement for Townhouses only (same as Certified Homes).
- Added duct test exemption if total supply length is less than 10 ft, and within conditioned space.
- Added space for Rater to verify that FT Agent shows up on the online directory, once they complete orientation. Both the orientation and online directory are still being developed.
- Changed the whole-building data acquisition requirement to 50,000 ft<sup>2</sup>, rather than 50 units, to align with other similar regional benchmarking requirements, and re-focused the language on the no-cost options.
- For the central exhaust duct leakage test, added sampling language and reference.
- For outdoor air systems without 100% outdoor air, provided a method for determining ventilation airflow supplied to a space.
- For Prescriptive Path, clarified that although ENERGY STAR certified light bulbs or fixtures are required to be installed, the Rater is only verifying that they meet either Tier I or II (e.g., CFL or LED).
- Clarified that WaterSense certification is not required for public use lavatory faucets.

## HVAC Design Report

- Added the lower flow standby cfm for garages when full flow not needed.
- Townhouses required to do room-by-room load calcs and DLTO test.

## Functional Testing Checklist

- Limited HVAC credentialed Contractor to Sections 1-5; must enter ID number.
- Simplified/clarified language.
- Added requirement related to measuring flow rate in boiler/chiller systems.

## Water Management System Requirements

- Created separate copy from Certified Homes.
- Removed 2b option, since all enclosed garages will have some ventilation with sensors where rate drops below 0.75.