

Updates and Changes to RESNET MINHERS and ANSI Standards

Effective July 1, 2022



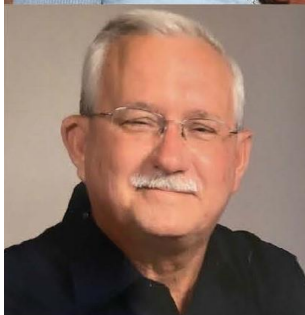
**Standards Development Committee 200 –
Education, Training, and Certification**

Chair: Sharla Riead, EnergySmart Institute



**Standards Development Committee 300 –
Inspections, Testing, and Calculations of Energy
Ratings**

Chair: Gayathri Vijayakumar, Steven Winter
Associates, Inc.



**Standards Development Committee 900 – QA and
Sampling Standards**

Chair: John Hensley, Building Performance Solutions,
LLC



Addendum 63: Training Expiration

- Addendum 63 addresses the time frame a Rater Candidate has to complete the HERS Rater Certification Process.
- The time frame is 15 months following the day of passing the National RESNET Rater Exam.
- It also clarifies and simplifies the requirements around what happens if that time frame is not met. Historically, there was confusion about when the 15-month time frame began, since there are three tests that must be passed, and there was an overly complex methodology used to determine what must be done to achieve certification if the time frame were missed.
- With this addendum, the exams must be retaken and passed and the 15-month clock is reset to allow for required mentored probationary ratings to be completed for certification.



Addendum 60: Combustion Safety Field Training

- Addendum 60 clarifies the tasks that must be completed as part of the mentored probationary ratings required for certification as a HERS Rater.
- This addendum was the result of an information request that was submitted which pointed out that the standards did not include explicit requirements for the mentored probationary ratings.
- Completion of specific tasks is now required as part of the certification process to demonstrate knowledge and ability. The task area around combustion safety and the field demonstration of those skills was separately addressed in recognition that there are parts of the country where it would be a challenge to find a location where this hands-on testing could coincide with a mentored probationary rating.
- Field training utilizing combustion safety testing tools is still required, but it is left up to the Rating Quality Assurance Provider to determine the best method and location to provide this hands-on experience.



Addendum 64f: Multi-Family & PR/US VI

Addendum 64f addresses two distinct issues.

1. Recognizes a gap in guidance for sampling in Multifamily buildings.
2. Extends the expiration date for the current exception for air leakage testing created for Puerto Rico and the US Virgin Islands after Hurricane Maria. This is still needed since hurricane recovery is reported to still be underway.



Addendum 64f: Puerto Rico & US Virgin Islands

In MINHERS, the allowance to use 10 ACH50 in lieu of a test will be allowed for permits prior to January 1, 2024 (instead of Jan 1, 2022).



Addendum 64f: Puerto Rico & US Virgin Islands

In MINHERS, the allowance to use 10 ACH50 in lieu of a test will be allowed for permits prior to January 1, 202~~2~~4 (instead of Jan 1, 2022).

303 Technical Requirements

303.1 Applicable Standards

All RESNET Home Energy Ratings conducted in accordance with this Standard shall comply with the provisions of ANSI/RESNET/ICC 301, “Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index.”

Exception 1: RESNET Home Energy Ratings conducted in Puerto Rico and the US Virgin Islands shall comply with the provisions of ANSI/RESNET/ICC 301, except that Ratings of homes with a permit date prior to January 1, ~~2022~~2024 are permitted to use a default infiltration rate of 10 ACH50 in lieu of conducting an airtightness test in accordance with Standard ANSI/RESNET/ICC 380. In addition, for a home in the Tropical Climate Zone for which its Living Space is not serviced by a space heating mechanical system and not more than one-half of its Living Space is serviced by a space cooling mechanical system, the Conditioned Space Volume shall be defined as the volume of its Living Space and the Conditioned Floor Area shall be defined as the floor area of its Living Space.



Addendum 64f: Multifamily Sampling

In MINHERS, the use of the RESNET Guidelines for Multifamily Energy Ratings for sampling of field inspections and testing is permitted until RESNET MINHERS Chapter 6 has been updated to explicitly address this.

The sampling process related to selecting the worst-case unit for the Sampled Rating is still addressed by Section 5 of ANSI 301-2019.



Addendum 64f: Multifamily Sampling

303 Technical Requirements

303.1 Applicable Standards

All RESNET Home Energy Ratings conducted in accordance with this Standard shall comply with the provisions of ANSI/RESNET/ICC 301, “Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index.”

Exception 1: ...

Exception 2: The field inspection and testing sampling requirements in the RESNET Guidelines for Multifamily Energy Ratings (consecutive sections titled “Sample Set of Multifamily Dwelling Units” through “Quality Assurance by Multifamily Sampling Providers”) are authorized for Sampled Ratings of Dwelling Units and Sleeping Units in multifamily buildings until the MINHERS Chapter 6 or other RESNET standard is updated to include sampling requirements specific to multifamily buildings.



Addendum 58f: Pre-drywall Inspection QA

- Date Approved: December 31, 2021
- Voluntary Compliance Date: December 31, 2021
- Mandatory Compliance Date: July 1, 2022
- Purpose: Addendum 58f is the final version of Standard 58 and will replace interim Addendum 58i on its Mandatory Compliance Date. The addendum revises the MINHERS Chapter 9 to set clear criteria for what pre-drywall QA field reviews can be used for. See section 904.3.3.1.3



Addendum 58f: Pre-drywall Inspection QA

Amendment: Revision of Chapter 9- Pre-Drywall QA ~~Revise Sections of the MINHERs as shown below in underline/strikeout format~~

- 904.3.3.1.3 Pre-drywall QA Field reviews. ~~In addition to~~For QA Field reviews on ~~completed homes, for ratings on~~ new homes, the Quality Assurance Designee may perform one or more a pre-drywall QA Field reviews on each HERS Rater or RFI. Pre-drywall QA Field reviews can be used to meet all or part of the annual 1% QA Field review requirement for a HERS Rater or RFI with the following limitation: Pre-Drywall Field QA Reviews may NOT be used to satisfy the full field QA requirement for a given rater or RFI in consecutive years. ~~in addition to the QA Field reviews on completed homes, and can replace 10%, but no more than 25%, of the total number of QA Field reviews (rounded up).~~
- ~~904.3.3.1.4 For example, if a HERS Rater or RFI is required to have one (1) QA Field review, one (1) review can be on a completed home and one (1) additional QA Field review can be on the same or a different home before drywall is installed. If a HERS Rater or RFI is required to have two (2) to ten (10) QA Field reviews, one (1) pre-drywall QA Field review may be performed and can count towards one, but no more than one, of the QA Field reviews. If a HERS Rater or RFI is required to have eleven (11) or more QA Field reviews, two (2) pre-drywall QA Field reviews may be performed and they can count towards two, but no more than two, of the QA Field reviews.~~



Addendum 58f: Pre-drywall Inspection QA

Amendment: Revision of Chapter 9- Pre-Drywall QA **Revise Sections of the MINHERs as shown below in underline/strikeout format**

- 904.3.3.1.45 ~~HERS~~ Raters and RFIs are exempt from receiving a QA field review for pre-drywall or final inspections and/or testing if they have not performed inspections and/or testing of any minimum rated features for pre-drywall or completed homes within the calendar year. For example, if a HERS Rater or ~~or~~ RFI have not completed any pre-drywall inspections within the calendar year, they are exempt from QA Field reviews for pre-drywall inspections.



Addendum 56: HERS Modeler QA

- Date Approved: March 31, 2022
- Voluntary Compliance Date: May 1, 2022
- Mandatory Compliance Date: July 1, 2022
- Purpose: Addendum 56 amends the RESNET Mortgage Industry National Home Energy Rating Standards (MINHERS), Chapter 9 to establish Quality Assurance criteria for HERS Modelers. The HERS Modeler is the certification established by the RESNET Board of Directors required for all persons using RESNET accredited software to determine HERS ratings for homes.



Addendum 56: HERS Modeler QA

Amendment: Addendum 56, HERS Modeler QA Modify the following sections of Chapter 9 as shown by ~~strikeout (delete)~~ and underline (add)

- 904.3.2.3 Parties included in QA File review. The QA File review shall assess the rating as a whole. The Rater of Record is the responsible party for communicating with the Quality Assurance Designee, acknowledging the review, and ensuring any necessary corrections are made. Feedback shall be shared with all HERS Raters/RFIs/HERS Modelers participating in the rating.
- 904.3.2.4 HERS Modelers. For HERS Raters utilizing HERS Modelers, the Quality Assurance Designee shall ensure that a QA File review is completed on a minimum of one (1) rating on a completed home per year. The HERS Modeler QA File reviews may fulfill all of the HERS Rater's annual QA File review requirement.



Addendum 56: HERS Modeler QA

- 904.3.2.3904.3.2.5 QA File reviews shall be conducted on an ongoing basis as appropriate for the volume of ratings being completed and submitted to the National RESNET Registry, and at a minimum quarterly.
- 904.3.2.4904.3.2.6 The QA File review completed by a Quality Assurance Designee shall consist of, at a minimum, the following:
 - 904.3.2.4.1904.3.2.6.1 Ratings shall be selected using a nonbiased selection process from the entire pool of ratings available at the time of the review for each HERS Rater. It may be necessary to first select ratings that represent any particular area of concern in either the rating or construction process. Once it is ensured that ratings from these areas of interest will be included in the quality assurance process, a nonbiased selection process can then be applied such as random selection. Special effort should be taken to make certain that the selected ratings are as representative as possible of the ratings being completed, i.e. new and existing homes, geographic location, builder, trade contractor, variety of floor plans, variety of assisting HERS Modelers and RFIs, etc., which, in some instances, may require more than the minimum (1) rating or ten percent (10%).



Addendum 54: HVAC System Installation Grading QA

Reminder: Additional training and credential required before a Certified HERS Rater or RFI may conduct HVAC Grading

- Date Approved: March 31, 2022
- Voluntary Compliance Date: May 1, 2022
- Mandatory Compliance Date: July 1, 2022 Transition Period
- Addendum 54 Revises Chapter 9 of the MINHERS to institute Quality Assurance requirements necessary for implementation of Standard ANSI/RESNET/ACCA/ICC 310- 2020, Standard for Grading the Installation of HVAC Systems.



Addendum 54: HVAC System Installation Grading QA

- **The following language has been added with the addition of ACCA 310 Chapter 9 Quality Assurance**
- 904.3.2.4.1
- Ratings shall be selected using a nonbiased selection process from the entire pool of ratings available at the time of the review for each HERS Rater. It may be necessary to first select ratings that represent any particular area of concern in either the rating or construction process. Once it is ensured that ratings from these areas of interest will be included in the quality assurance process, a nonbiased selection process can then be applied such as random selection. **If ratings exist in the pool of available ratings which represent a RESNET supported credential beyond HERS Rater certification, such as ENERGY STAR or ANSI/RESNET/ACCA Standard 310 Inspections, a minimum of one rating representative of each supported certification shall also be included.** 1 Special effort should be taken to make certain that the selected ratings are as representative as possible of the ratings being completed, i.e. new and existing homes, geographic location, builder, trade contractor, variety of floor plans, etc., which, in some instances, may require more than the minimum (1) rating or ten percent (10%).



Addendum 54: HVAC System Installation Grading QA

- 904.3.2.4.3.1 At minimum, the Rating Provider shall collect, review, and maintain (for a period of 3 years) the following supporting documentation for each file QA:
 - Date and time of the inspection/test
 - The name of the Certified Rater or RFI conducting the inspection/test
 - Plans (or alternative documentation showing building dimensions)
 - RESNET Home Energy Rating Standard Disclosure



Addendum 54: HVAC System Installation Grading QA

- Photos of the following building features where applicable to the rated Dwelling Unit. Where photos lack sufficient detail 12 , the Quality Assurance Designee shall require additional supporting documentation.
- a. Building assemblies as required by ANSI/RESNET 301 Appendix B Inspection Procedures for Minimum Rated Features.
- b. All heating, cooling, and service hot water equipment including nameplate/model number
- c. Dwelling Unit Mechanical Ventilation System including nameplate/model number and controls
- d. Infiltration test result or automated test report
- e. Duct leakage test result(s) for each system
- f. Dwelling Unit Mechanical Ventilation System test result(s) for each system
- g. The building's front, back, right, left elevations
- h. Appliances (refrigerator, dishwasher, washer, dryer) including nameplate/model number



Addendum 54: HVAC System Installation Grading QA

- **For File QA on a rating that includes an additional RESNET supported credential, collect, review, and maintain supporting documentation required by the RESNET-supported credential. This may include, but is not limited to the following:**
 - **EEP or Program Verification Forms/Checklists**
 - **Photographs of test results or automated test reports for program required verification tests.**



Addendum 54: HVAC System Installation Grading QA

- 904.3.3.2 Requirements for QA Field reviews.
 - 904.3.3.2.1 HERS Raters. The QA Field review shall confirm the accuracy of all stages of the rating process (e.g. data collection, reporting, and energy simulation file creation and/or updating) for the rating receiving a QA Field review.
 - 904.3.3.2.1.1 Collect dimensional measurements in the field for the home to evaluate the accuracy of those determined by the HERS Rater in the field or from plans, including conformance to the requirements set forth in Chapters 3 and 8 and Appendix A of these Standards.
 - 904.3.3.2.1.2 Complete in the field all necessary performance testing and all necessary inspections of minimum rated features for the home to evaluate the accuracy of those determined by the HERS Rater, including conformance to the requirements set forth in Chapters 3 and 8 and Appendix A of these Standards.



Addendum 54: HVAC System Installation Grading QA

- **As applicable 3, complete all necessary performance testing and inspections as required by RESNET supported credentials beyond HERS Rater certification, such as ENERGY STAR or ANSI/RESNET/ACCA Standard 310 Inspections.**
 - **For File QA on a rating that includes an additional RESNET supported credential, collect, review, and maintain supporting documentation required by the RESNET-supported credential. This may include, but is not limited to the following:**
 - **EEP or Program Verification Forms/Checklists**
 - **Photographs of test results or automated test reports for program**
 - **required verification tests.**
 - 904.3.3.2.1.3 Evaluate inputs entered by the HERS Rater into the energy simulation file for the rated home to determine conformance with data from 904.3.3.2.1.1 and 904.3.3.2.1.2 as well as Chapters 3 and 8 and Appendix A of these Standards.



Addendum 54: HVAC System Installation Grading QA

- 904.3.3.2.2 Rating Field Inspectors. The QA Field review shall confirm the accuracy of data collection and reporting by the RFI for the rating receiving a QA Field review.
 - 904.3.3.2.2.1 As necessary, collect dimensional measurements in the field for the home to evaluate the accuracy of those that may have been determined by the RFI, including conformance to the requirements set forth in Chapter 8 and Appendix A of these Standards
 - 904.3.3.2.2.2 Complete in the field all necessary performance testing and all necessary inspections of minimum rated features for the home to evaluate the accuracy of those that may have been determined by the RFI, including conformance to the requirements set forth in Chapter 8 and Appendix A of these Standards. **As applicable 3, complete all necessary performance testing and inspections as required by RESNET supported credentials beyond HERS Rater**

Next Steps

- Questions? Contact info@resnet.us
- Visit <https://www.resnet.us/about/standards/>