

**RESNET**<sup>®</sup>  
RESIDENTIAL ENERGY SERVICES NETWORK

**2020 CONFERENCE**

Scottsdale, AZ • Feb 24-26

# QAD Roundtable

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# Agenda

- Final Reminders on Addenda
- Updated QAD Exam
- Addendum 34 Update
- QA Field Observation Findings
- Final Takeaways from 2019 RESNET QA Oversight Activities

## Addendum 30

- Addendum 30 is the changes to chapter one and nine of the RESNET Standards related to Quality Assurance
- Addendum has finally been approved and the effective date is January 1, 2020
- The transition period end date is July 1, 2020



## Transition Period

- **Transition Period-** The period of time beginning on the Effective Date, during which an amendment shall be allowed, but not required, to be used for any Dwelling Unit or Sleeping Unit.
- **Transition Period End Date-** The date that concludes the Transition Period. An amendment shall be required to be used for a Dwelling Unit or Sleeping Unit whose Building Permit Date is after this date.
- **Reminder!** You cannot use part of a new standard and part of an old one

## Big Changes from Addendum 30

- QA Delegates are going away
  - Everyone conducting QA reviews need to be a certified Quality Assurance Designee
- Pre-dry wall QA reviews are permitted
  - May replace 10%, but no more than 25% of required reviews
- Remote field QA reviews are permitted
  - Still need to complete one “live” QA annually
- Field and File QA Checklist will be a requirement for QA Reviews

## Addendum 42

- MINHERS Addendum 42 adopts Standards 301-2019 and 380-2019 for the RESNET HERS.
- The Voluntary Compliance Date when the standard is first authorized for use by RESNET-accredited Providers is October 1, 2019. The Mandatory Compliance Date is July 1, 2020.

## QAD Disciplinary Action

- A joint working group of members of SDC 200 and 900 was formed to develop disciplinary action items in chapter nine for Quality Assurance Designees.
- Currently there are only disciplinary action items for providers
- Draft addendum is almost complete and will be going out for public comment soon.

## Updated QAD Exam

### ■ Exam Working Group's Primary Project for 2019

- ▶ Development of 2 Fixed-Form Exams
- ▶ Drafted New Items
  - ▶ Lighting
  - ▶ Domestic Hot Water
- ▶ Edited/Revised Some Items and References
- ▶ Pass Point Study
  - ▶ Member of Exam Working Group plus Two Additional SMEs



# Updated QAD Exam

## ■ Key Details on the new QAD Exam

- ▶ Launch Date:
- ▶ Passing Score = 80%
- ▶ 100 Items
- ▶ 3-hour Time Limit
- ▶ Re-test Policy
  - ▶ 30 Days after first attempt, 6 months after second attempt
- ▶ Cost \$150.00

## Addendum 34 Update

- MINHERS Amendment to Chapter 9
- Aimed at Improving RESNET Quality Assurance Program
  - ▶ Creates a Clear Minimum Set of Supporting Documents for QADs to Collect and Review for File QA Purposes
  - ▶ Establishes Plans, EEP Verification Checklists, and Specific Photo Documentation as Minimum Supporting Documentation for RESNET File QA

## Addendum 34 Update

### ■ Photo Documentation

- ▶ Initial Draft Proposed Elevations, Building Assemblies, LTO, Ventilation, & Blower Door Test Results, HVAC Equipment Nameplates, Appliances, etc
- ▶ Language Revisions in Subsequent Drafts:
  - ▶ Defining Minimum for Building Assemblies
  - ▶ Improving Language to Address Photos Lacking Sufficient Detail

## Addendum 34 Update

### ■ Current Status:

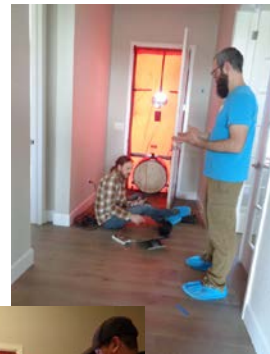
- ▶ 1/31/2020 QA Data File Task Group Sent <DRAFT> Responses to the Public Comments on PDS-02

### ■ Next Step:

- ▶ SDC-900 Will Consider the <DRAFT> Responses and Either Edit or Accept as-is. By Vote, SDC-900 Sends Responses to Each Commenter and Draft PDS-03 Sent to Standard Manager
- ▶ If PDS-03 Includes Substantive Changes, Posted for Round 3 of Public Comments.

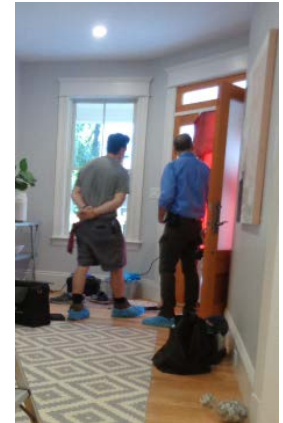
## QA Field Observation Findings

- When QAD is present during the final rating
  - Distraction or “stage fright”
  - Work to minimize
  - Advantage of blind or ridealong redo vs initial QA



## QA Field Observation Findings

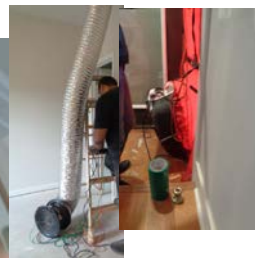
- Correcting rater/RFI errors during Field QA Reviews
  - Lots of great teaching and mentoring happening
  - Be careful not to influence the Rater/RFI's test result.
  - Let test happen and then correct and re-test. Then compare results as a teaching tool.



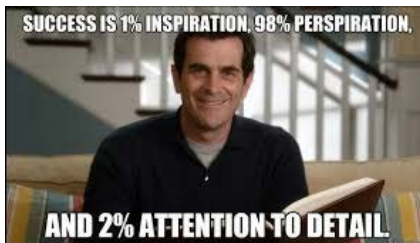
## QA Field Observation Findings

- Common Rater and RFI Errors (reported by QADs)

- Blower Door Testing
- Duct Leakage Testing
- Ventilation Testing
- Pressure Balance Testing

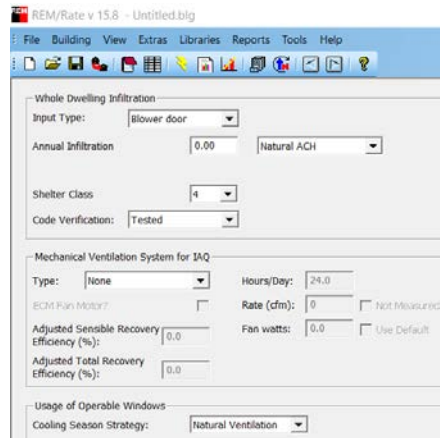
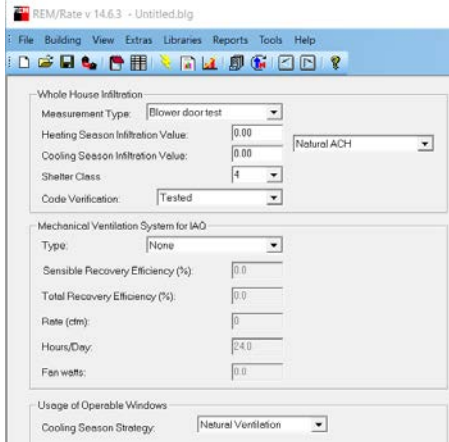


- Complex Thermal Boundary Construction: where it is and how it connects
- Consistency from Design to As-Built
- AHRI use
- Windows
- Detailed Lighting Inputs
- Attention to Detail



# QA Field Observation Findings

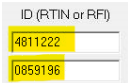
- Ventilation—modeling info in wrong cells due to new format
- Pay attention to software changes and educate your Raters
  - Less active raters





# QA Field Observation Findings

- Raters-Field Only
  - HERS raters acting as field raters (not raters of record) were not tallied in Registry for Field QA Reviews
  - Registry only recognized RFINs (6-digit letters and #s); not RTINs (7-digit #s only)
  - Now field raters are broken out and tallied for Field QA:
    - **Raters-Field Only**
      - Need 1% field QA on these ratings



Raters	<b>Raters - Field Only</b>	RFIs	Ratings	+
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# QA Field Observation Findings

- RESNET QA Review Checklist
  - Mandatory Compliance Date 7/1/2020
- Please give us your feedback

RESNET QA Review Checklist				Project ID information			
Version 3.2				Registry ID#			
				Type of Field QA:			
				Rater:			
				RS#:			
				GAC:			
				GAC involved in Rating?			
				Street Address:			
				City:			
				State:			
				Zip Code:			
				Date (file Review):			
				Date (field Review):			
				Date (re-Review):			
* Rating must be corrected and submission then resubmitted to Registry if: 1) any item with an asterisk (*) is incorrect, or 2) any item is given a severity score of "3", or 3) the overall							
<b>Total Overall Rating Score Points:</b>				<b>40/7</b>	<b>PASS</b>		
Item #	File / Field	Checklist Item (justified via plans and/or site data)	++	+	-	Indicate "NA", "OK" or, if item is incorrect, indicate the "Severity" (1 = Low, 2 = Medium, 3 = High)	Score
1*	File / Field	Address not duplicated in Registry	2	2	0		
2	File / Field	Rater provided a signed Standard Disclosure Form (as required)	2	3	0		
3*	File / Field	Required Documentation provided to support RMR's modelled	4	4	12		
4	Field	Testing Equipment Condition & Calibration meets Standards	2	3	0		
5*	File / Field	508183 is correct. Go to: <a href="https://en.resnet.com/text/pubs/28c1_801.htm">https://en.resnet.com/text/pubs/28c1_801.htm</a>	2	2	0		
6*	File / Field	Rating Date (last Field Insp) is properly assigned	4	1	0		
7	File	Sampling Process is correct as required by 903.4.1.3.1	4	4	10		
8*	File / Field	Rater/RS matches RTA/RTRs	2	3	0		
9*	File / Field	Climate location correct	4	3	10		
10	File / Field	Utility rates are correct and complete	4	2	0		

## QA Field Observation Findings

- Your Standards!
  - Submit Standard Amendments
  - Submit Public Comments

**Let your voice be heard.**



# Final Takeaways from 2019 RESNET QA Oversight Activities

## Photo Documentation

■ Appendix A ANSI 301-2014/2019



# Final Takeaways from 2019 RESNET QA Oversight Activities

## Candidate Certification Process

RFI FIELD EVALUATION PHOTO DOCUMENTATION

❖ How to upload photos to a word document: <https://www.youtube.com/watch?v=uvrWRixfZE0>

Candidate Name	
Date of Evaluation	

Include **one of each** of the 10 photos listed below:

<b>1. Exterior of the home also showing the Candidate and the house number</b>

# Final Takeaways from 2019 RESNET QA Oversight Activities

Automated QA Tool Flags:

- Repeat Test Values



## Final Takeaways from 2019 RESNET QA Oversight Activities

Common Errors Reported by QADs:

- Modeling Data Entry Error
- Neglecting to Update Templates
- Library Errors



# Final Takeaways from 2019 RESNET QA Oversight Activities

Improve How Feedback is Delivered to Raters/RFIs after Field/File QA is Completed





# Questions?

