

RESNET[®]
RESIDENTIAL ENERGY SERVICES NETWORK

2020 CONFERENCE

Scottsdale, AZ • Feb 24-26

Utility QA Pilot

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Laurel Elam, Billy Giblin and Rick Gazica

Agenda

- Introduction
- Recap of Field Visit with ICF
- Survey Results
- Panel Discussion

Pilot Overview

- A pilot program with ICF Consulting was conducted from July 1, 2019 through December 31, 2019 to recognize the field QA reviews they conduct as part of their oversight of the utility incentive program for Duke Progress and TNMP
- This means that the field QA reviews they conduct on behalf of the utility program would count towards your annually required field QA reviews required by the RESNET Standard



Purpose

- The purpose of the pilot is to identify and resolve any barriers to leveraging utility program QA with the intent of eliminating redundancy and reducing the field QA cost burden for Rating Providers.

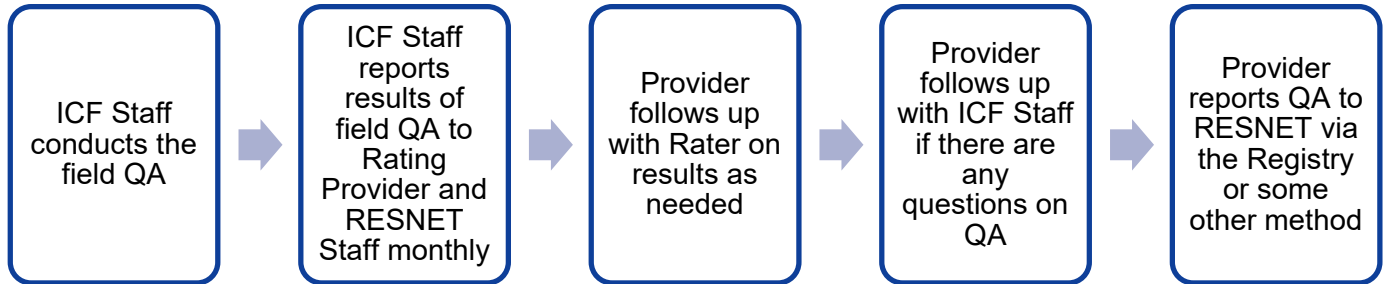


Goal

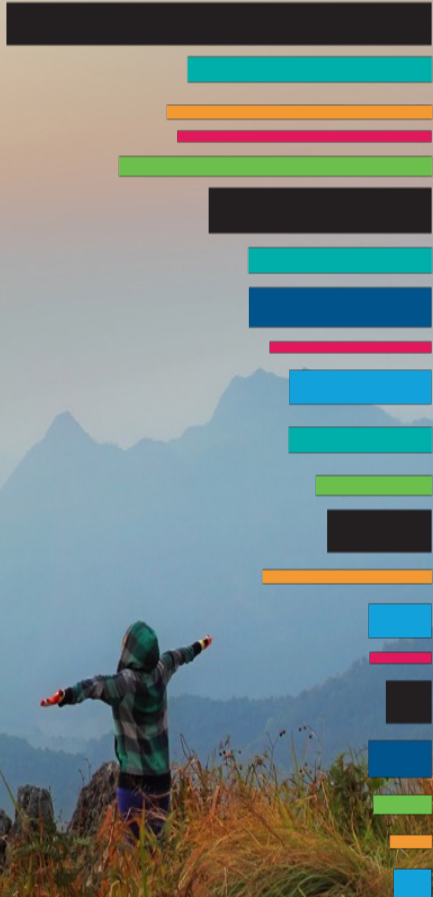
- The goal of the pilot is to determine what issues exist in using the utility program reviews as the reviews required by RESNET while maintaining the RESNET Quality Assurance Program as the Gold Standard of the industry.
- The success of the pilot will determine if this may be used for other utility program implementers and RESNET Accredited Rating Providers.



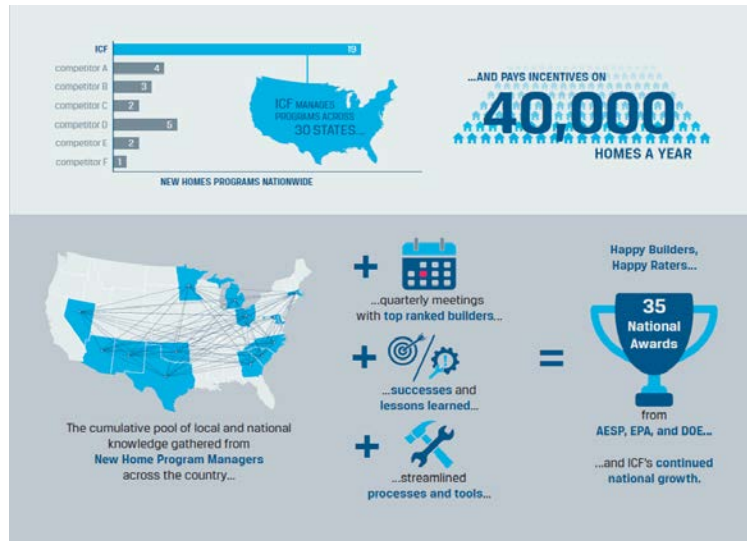
Work Flow for QA Reporting



RESNET QA/QC Pilot



ICF run Utility Programs



AEP Texas

- Program launched in 2002
- Pays incentives on 800 homes per year
- Perform random field QA on 10% of all homes in program




Duke Energy Progress

- Program launched in 2016
- Pays incentives on 6,500 homes per year
- Perform random field QA on 9% of all homes in program



Output for QA

- 100 data points collected including minimum rated features and photos
- PDF generated for each QA, sent to site supervisor and Rater at time of inspection
- Monthly excel spreadsheet sent with 100 data points per home to provider, and including all PDF's from previous month

SIGHTLINE POWERED BY  Duke New Homes QAQC V2
1815152290


Reference Number: DE-PA-20200130-1815152290
Form Name: Duke New Homes QAQC V2
Submitter Name: Chase Edge (chase.edge@edg.com) | chase.edge@edg.com
Submission Date: Jan 30, 2020 5:53:51 PM EST
Location: 1201 Brookfield Dr, Cary, NC 27519, USA
Jan 30, 2020 5:53:51 PM EST | [View Log](#)

GENERAL INFORMATION

General Information

Builder	Mortgage Homes Of The Carolinas
Community Name	Brookfield
Address	1014 Salt Glaze Ln
City	Cary
State	NC
Zip Code	27519
Lot #	30
Home Selected for QAQC?	Yes
QC Inspection Date	Jan 30, 2020
QC Tech Name	Chase Edge
Rating Organization	TopBuild Home Services
Rater Name	Mark Keith

Exterior Photos



Participants

- Nine providers participated in the North Carolina pilot and one opted out
- Five providers participated in the Texas pilot and two opted out



PARTICIPANTS NEEDED



Program Information- North Carolina

- ~6300 homes in the program annually
- 290 field QAs performed in the pilot program
- Home must meet State Stretch Code “HERO code” which is approximately 20% more efficient than the standard state code in North Carolina.



Program Information- Texas

- ~700 homes in the program annually
- 35 field QAs performed in the pilot program
- Homes must meet program requirements for prescriptive measures such as meeting Texas State code, installation of high efficient equipment such as LED and high SEER cooling units



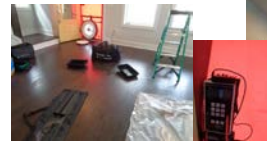
Recap if Infield Visit with ICF

- ICF for Duke Progress in NC
 - August 2019
 - Visited three homes



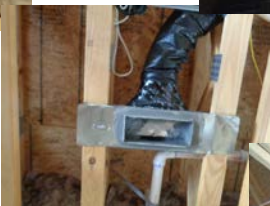
Recap if Infield Visit with ICF

- ICF for Duke Progress in NC
 - 9% field QA overall on participating rating companies
 - ~50/50 mix of blind QA and ridealong initial QA
 - ~50/50 mix of final QA and pre-drywall QA
 - Ample photographs
 - Verified required MRFs (attics and crawls, lights, appliances, mechanical equipment, etc.)
 - Blower Door and Duct Leakage testing
 - Reports --- very thorough and clear



Recap if Infield Visit with ICF

- ICF for Duke Progress in NC
- Pre-drywall Inspections



Recap if Infield Visit with ICF

- Utility QA priorities versus RESNET QA priorities
 - Did not do ventilation testing in Duke Progress homes; ventilation testing not enforced by municipalities
 - ICF Texas DOES document raters' ventilation testing
 - Did not take dimensions/measurements of the home or windows
- Utility companies may not prioritize all the same items as RESNET (electric vs gas, ventilation, etc.)
 - Implementers must keep programs cost-effective
 - This will vary around the country



Survey Results

Provider Interest



■ 13 ■ 3

Providers Attending Webinar



■ 7 ■ 6

Survey Results

Providers Receiving Field QA on Final Inspections



■ 7 ■ 6

Survey Responses



■ 5 ■ 13

Survey Results

What were the gaps?

- ▶ Ventilation Testing
- ▶ Kitchen Appliances
- ▶ Elevation
Photos/Window
Measurements
- ▶ Water Distribution
System Data



Survey Results

What were the gaps?

- ▶ ENERGY STAR QA
- ▶ Initial Final Visit vs Re-inspections
- ▶ Blower Door Discrepancies, lack of full 380 reports
- ▶ Incorrect Provider Contact



Questions?

I've waited so long for this moment

