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# Proposed Amendment Sampling Standard

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CHANGE FOR THE  
BETTER WITH  
ENERGY STAR

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# Proposed Amendment Sampling Standard

Energy Sense

Current Process

Changes to Comply

Recommendations/Exceptions



## 603.1.2 Homes Eligible

**Same Construction Type  
Typical to the Two Climate Zones**

- **Pass Seven Consecutive Homes**
- **Same Set of Trade Contractors**



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## 603.1.2 Homes Eligible

- Same Set of Trade Contractors...**
- Trades That Affect Energy Performance**
- **Insulators**
  - **Air Conditioning Contractors**



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## 603.1.2 Homes Eligible

### **Exception Request Beyond One-time Exception:**

- **FACT: In major Texas markets the majority of trades have participated for 5 years.**
- **FACT: These trades have proven track record.**

## 603.1.2 Homes Eligible

### **Request for Exemption Based On:**

- **Providers Experience with Trades**
- **Builders Performance**
- **Trade track record**
- **Trade on-going training**



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## 603.1.2 Homes Eligible

**Request for Exemption from this requirement for Texas trades with documented experience and recommendation from rater/provider.**

## 603.1.3 Analysis of Homes

- **Worst Case Options and All Known Packages**
- **Change in Design Requires Individual Rating**
  - **BOYL (Build on Your Lot)**





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## 603.1.34 Sampling of Sets

### **Geographically**

- **Subdivision**
- **Metropolitan Area**
- **Climate Zone**



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# 603.1.34 Sampling of Sets

**Metropolitan Area**

## 603.1.6 Sampling Controls

- **A collection or set of required tests and inspections performed for a sample set of homes.**

## 603.1.6 Sampling Controls

- One in Seven
  - **Group of Homes that are Tested and Inspected at Different Stages**
    - **Pre-sheetrock – 100% ONLY**
    - **Duct Tests (Rough/Final)\***
    - **Blower Door**



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# Exceed Minimum Requirements

- Homes Batched Daily As They Are Requested
- City Wide
- One Fails - Next 6 Are Automatically Tested



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## 603.1.6.9 Builders Must Begin Again...

### **Exception Request:**

- FACT: Protocol Exceeded from the Beginning
- FACT: Builder Agrees to Higher Level of Penalty
- FACT: More Batches Fail Daily Affecting Subdivisions Across the City
  - Request: Grandfathered Builders do not have to start over.



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## 603.1.6.9 Builders Must Begin Again...

**Exception Request:**

**Grandfathered Builders do not have to start over.**



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## 603.1.7 Quality Assurance Deal Killer

- **Rater must test 1 in 7**



## 603.1.7 Quality Assurance Deal Killer Alternative

- **Data Collectors**
- **Supervised by Raters**
- **Q/A by a Senior Data Analyst**
- **Q/A by an Executive Operations Manager**

## 603.1.7 Quality Assurance Deal Killer

### **Exception Request for Process in Place**

- **Training in Place**
- **Higher Level of Sampling Penalty**
- **100% Pre-sheetrock Inspection Required**
- **Costly Q/A Makes Sampling Outrageously Expensive**
- **Complying with Q/A Required by RESNET**
- **Conclusion - Q/A Kills Sampling**

# Other Challenges to Sampling

- 1. New EPA Guidelines**
- 2. Administrative Burden**
- 3. Pre-sheetrock Tracking Nightmare**
- 4. Duct Test Total vs Outside**
- 5. Cost Burden to Rater**
- 6. Cost Burden to Builder**
- 7. Penalty to Builders for Failures**
- 8. Same Set of Trades**



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## Other Challenges to Sampling

### **New EPA Guidelines:**

- **Set Minimum Standards at 4 or 6 CFM/100 Sq.Ft. to Outdoors**
- **Current Defaults at 10% CFM 25 Leakage to the Outdoors**
- **Current Performance Averages 6%**



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## Other Challenges to Sampling

1. **New EPA Guidelines**
2. **Administrative Burden**
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5. **Cost Burden to Rater**
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7. **Penalty to Builders for Failures**
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# Other Challenges to Sampling

1. New EPA Guidelines

2. **Administrative Burden**

Spreadsheets/Spreadsheets/Spreadsheets

More coordination with field inspectors

More communication to builders

3. **Pre-sheetrock Tracking Nightmare**



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# Other Challenges to Sampling

## Duct Test Total vs Outside



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# Other Challenges to Sampling

**Additional Cost**

**Cost Burden to Rater**

**Cost Burden to Builder**

**Penalty to Builders for Failures**

**Same Set of Trades**





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# Proposed Amendment Sampling Standard

- Sampling Today
- Gone Tomorrow



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# Sampling Today - Simplified

Best Practices in place

Training

100 % Presheetrock

Quality Control

Tracking

Exceed proposed standard