

HES & HES-IE Program Redesign

DEEP Technical Meeting

February 25, 2025

Diane Del Rosso

Amy McLean

EVERSOURCE



PROUD SPONSORS OF



V. Utilities

a.

How Proposed Changes Address Identified Issues

b

Expected Program Impacts

c

Assessment of Contractor Impacts

a. Identified Issues Home Energy Solutions – Income Eligible Updates



Ensure **air sealing energy savings** are realized and maximized in customer homes



Improve the design to consider the **high rate of homes that have a blower door health and safety barrier**

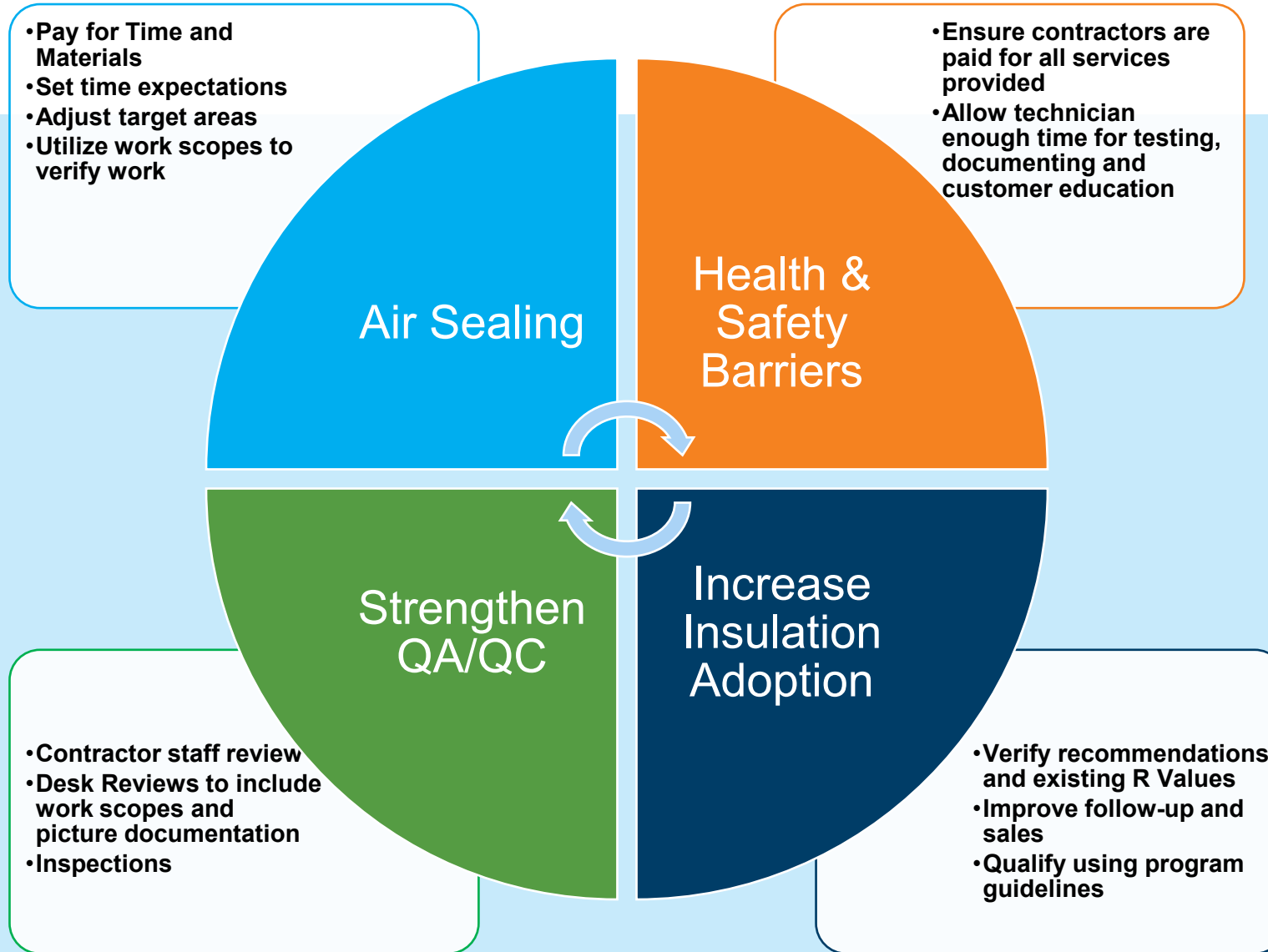


Increase **insulation adoption** in both HES & HES-IE to program guidelines



Strengthen QA/QC

Addressing Identified Issues





AGBC Priority

Attic and

Garage (attached/
under)

Basement

Conditioned Space



Approximately 40 -
50% of air sealing
time should be
spent in the attic



Consistent with BPI -
air sealing and
insulation required
for an air/thermal
barrier in **all areas
recommended for
insulation unless
dense pack is part
of the SOW**



Insulation rebate
may only be
provided utilizing
the **existing
qualifying R
Values**

Air Sealing Priorities and Cost Effectiveness

Table 1. HES & HES-IE Air Sealing with Attic Air Sealing

Standard Air Seal Hours for Entire Home	
Total technician-hours	
Guidance for Home Size (Conditioned Square Feet) and Age	Hours
<ul style="list-style-type: none"> •Very small homes $\leq 1,000$ square feet; or •Newer homes (built 2014 and after, regardless of size) 	4
<ul style="list-style-type: none"> •Most homes ($> 1,000$ square feet); or •Homes built before 2014 	6
Additional Air Sealing Hours based on attic considerations <i>Per Technician Discretion and Justification</i> <u>Examples:</u> <ul style="list-style-type: none"> •≥ 6 inches Loose Insulation •≥ 6 inches Mix Batt & Loose Insulation •Cross Batt Insulation •Truss Construction •Kneewall Transition (1 hour Kneewall) 	Up to 2
Exception 1: At/Near BAS	1
Exception 2: Modular / Prefab	3

Table 2. HES & HES-IE Air Sealing without Attic Air Sealing

Air Sealing Hours for Areas of Home	
Total technician-hours	
Area	Hours
Floored Over Attic	1
Kneewall Transition (1 hour per Kneewall)	2
Basement/Crawlspace Rim Joist	1
Basement/Crawlspace Ceiling	1
Exception 1: At/Near BAS	1
Up to 3 hours total may be invoiced	

SOW Work Plan

Will use a Company provided template – examples shared

Plan view – building floor plan and consolidated recommendations for air sealing, insulation and duct sealing

2 – 4-unit homes – SOW Work Plan should address entire structure (separate plan views by floor/unit)

Customer: _____		Home Phone: (____) _____	
Address: _____		Work Phone: (____) _____	
Town: _____		Cell Phone: (____) _____	
Any limitations for access by large truck? No _____ Yes _____ If yes, describe: _____			
Any specific directions or landmarks? No _____ Yes _____ If yes, describe: _____			
Site ID: _____	Energy Specialist: _____	Reviewed by: _____	

① Air seal attic flat → 1008 Δ → FGB Existing → 8 h/s

② Add one 12" mushroom vent

③ Add four 4" x 16" soffit vents w/ propavents

④ Add 2" thermal board to hatch ⑤ Add 16' damming @ BF + hatch

⑥ Densepack overhang w/ 8" cellulose → 72 Δ

⑦ Densepack exterior walls w/ 3" cellulose → 1,952 Δ

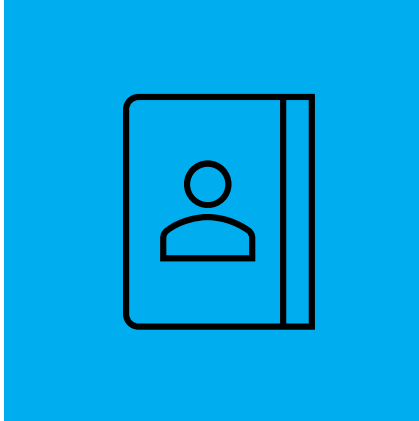
⑧ Blower Door ⑨ Open blow 11" cellulose in AFL → 1008 Δ

CH₁ = 8'

CH₂ = 25'

Bushes	Ladder	Neighbor Proximity	Pocket Doors	Insert Radiators	Fence(s)
Existing Conditions	X = Access RV = Ridge Vent	\square = Vents Note Inside Square CS = Continuous Soffit	R = Roof CDE = Continuous Drip Edge	S = Soffit T = Triangle	G = Gable
Install	O = New Access Note in Circle Δ = Vents Note in Triangle	C = Ceiling R = B" Roof	S = Sheathing G = Gable	Temp Unless Noted Otherwise M = 12" Mushroom For Access	

b. Expected Program Impacts



Improved
Customer
Experience:
Set the customer
expectation
Improve results
Improve education

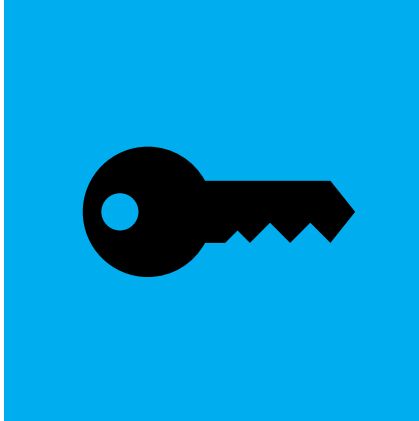


Utilities expect
spending to be
similar or slightly
higher overall to
current spending



Savings increased
by air sealing in the
right places,
completed duct
sealing and
increased insulation
adoption – all will
improve realization
rates

c. Contractor Impacts



Flexibility in
delivery:

Health & Safety
Visit, if needed
1 visit or 2 visit



Defined Work
Scope
Expectations:

Allow enough time
for work to be
completed (air
sealing & duct
sealing)



Focus on the
Customer's Home:

Air Sealing & Duct
Sealing

Education

Home Upgrades

