



Home Performance with ENERGY STAR[®] ASSESSMENT FIELD DATA COLLECTION FORM

For Work Completed January 1, 2012 to March 31, 2012

Date:

Name:

Phone:

Address:

Building Data		<input type="checkbox"/> Single	<input type="checkbox"/> Tri-Plex
Building Age:	# of Occupants	<input type="checkbox"/> Duplex	<input type="checkbox"/> Mobile Home
Customer Top Concerns:			
1)			
2)			

- Foot Print -

Note Cardinal Directions

Air Leakage Data		
Conditioned Floor Area:	# Stories:	Ceiling Height:
Pre CFMs Reading:	Total Heated Volume:	
Post CFMs Reading:	Pre ACH 50:	(CFM 50*60/vol.)
	Post ACH 50 Reading:	(CFM 50*60/vol.)
Leakage Sites:		
<input type="checkbox"/> Chimney SC Flues	<input type="checkbox"/> Dropped Soffit	<input type="checkbox"/> Attached Garage Wall
<input type="checkbox"/> Soil Stacks	<input type="checkbox"/> Recessed Lights	<input type="checkbox"/> Rim Joist, Sill
<input type="checkbox"/> Plumbing Chase	<input type="checkbox"/> Tongue & Groove Ceiling	<input type="checkbox"/> Doors, Windows
<input type="checkbox"/> Partition Walls	<input type="checkbox"/> Band Joist	<input type="checkbox"/> Porch Ceiling
Other:		
Other:		



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Insulation Area	Total Sq. Ft.	Pre R-Value	Post R-Value	Insulation Area	Total Sq. Ft.	Pre R-Value	Post R-Value
Attic 1				Sidewall cavities			
Attic 2				Foam Sidewall			
Attic 3				Sill Box			
Slopes/ Cathedral				Floor			
Gable End Walls				Interior Foundation			
Knee Walls				Exterior Foundation			
Other				Other			

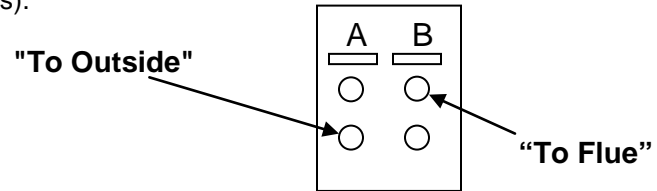
HEATING EQUIPMENT INFORMATION				WATER HEATING EQUIPMENT INFORMATION			
Fuel Type		System Type		Fuel Type		Existing Gallons	
Natural Gas	<input type="checkbox"/>	Forced Air	<input type="checkbox"/>	Natural Gas	<input type="checkbox"/>	Replace?	<input type="checkbox"/>
Propane (LP)	<input type="checkbox"/>	Boiler steam	<input type="checkbox"/>	Propane (LP)	<input type="checkbox"/>	Fuel Switch?	<input type="checkbox"/>
Oil	<input type="checkbox"/>	Boiler water	<input type="checkbox"/>	Oil	<input type="checkbox"/>	Notes:	
Electricity	<input type="checkbox"/>	Heat Pump	<input type="checkbox"/>	Electricity	<input type="checkbox"/>		
Other: _____	<input type="checkbox"/>	Wall furnace	<input type="checkbox"/>	Other: _____	<input type="checkbox"/>		
		Space Heater	<input type="checkbox"/>				
System Vent				System Vent			
Atmospheric	<input type="checkbox"/>	Electric Baseboard	<input type="checkbox"/>	Atmospheric	<input type="checkbox"/>		
Induced Draft	<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	Power Vented	<input type="checkbox"/>		
Condensing	<input type="checkbox"/>			Direct Vent	<input type="checkbox"/>		
		Co Level ppm	<input type="checkbox"/>				
Existing Age	<input type="checkbox"/>	Replace?	<input type="checkbox"/>	Existing Age	<input type="checkbox"/>		
Existing Afue%	<input type="checkbox"/>	Fuel Switch?	<input type="checkbox"/>	Co Level Afue%	<input type="checkbox"/>	Optional: Water Temp	<input type="checkbox"/>

EXHAUST FAN INFORMATION			AIR CONDITIONING	
Location	CFM	Vented to Exterior?	Existing Unit? <input type="checkbox"/> Yes <input type="checkbox"/> No	
			Room Unit: <input type="checkbox"/>	How Many?
			Central Unit: <input type="checkbox"/>	
			System Age:	
			Recommend Replacement?	
Notes:			Duct Leakage/Open Vents in Basement?	

Combustion Safety Testing Form

1. Turn combustion appliance(s) to *pilot* (to prevent operation during set-up). Make observation of any supply or return grills in the CAZ.
2. Zero CO detector (follow manufacturer's instructions).
3. Record house ambient CO level.
4. Record outdoor temperature.
5. Put house in winter condition (including latching or locking windows).
6. Install hose; CAZ WRT (with respect to) Outside.
7. Check furnace filter, replace if dirty when possible.
8. Close all operable vents (example - fireplace damper).
9. Clean lint filter in dryer.

TEST	Pre test	Post test
Test Date		
Ambient CO		
Outdoor Temperature		



All readings: CHANNEL A: CAZ WRT OUTSIDE

1. **Baseline** test (interior doors open, all exhaust appliances off).
2. Turn on all exhaust appliances in home.
3. Turn on furnace air handler. Check for system integrity, verify all registers are open and unobstructed.
4. Close interior doors. Measure the pressure difference between main body and the room you are testing. (IF NEGATIVE, OPEN door. IF POSITIVE, close door.) Start with furthest door, working back to CAZ.
5. Record **worst case depressurization**.
6. Subtract Initial CAZ Baseline from #5 reading. Record number here: This is **NET Worse Case Depressurization**.
7. Record House Depressurization Limits (HDL) from table below. If readings in line #6 EXCEED the HDL, system FAILS. Inform customer via Disclosure Form.
8. Record dominant force(s) causing depressurization.

Pre Test	Post Test

Maximum Depressurization for Combustion Appliance Zones by Appliance Type	
Venting Condition	Pascals Limit
Orphaned natural draft water heater (including outside chimneys)	-2
Natural draft boiler, furnace or stove commonly vented with water heater	-3
Natural draft boiler, furnace or stove with damper commonly vented with water heater	-5
Individual natural draft boiler, furnace or stove	-5
Induced draft boiler or furnace commonly vented with natural draft water heater	-5
Power vented or induced draft boiler or furnace alone, or fan assisted DHW alone	-15
Chimney-top draft inducer; exhaust type or equivalent; high static pressure flame retention head oil burner; direct vented appliances; sealed combustion appliances	-50

Maintaining house under Worst Case conditions, proceed to test combustion appliances. Test oven under natural conditions – run exhaust fan or open window during oven test. Monitor ambient CO during all combustion tests – abort test if CO ambient exceeds 35 ppm. Test all interior and exterior gas lines, fittings, and valves for leaks. Report findings on disclosure form.

Back-draft and CO Testing Results of Natural and Induced Draft Combustion Appliances

Cycle combustion appliance(s). Spillage after 1 minute fails test. Record draft and CO readings at steady state. Do not drill holes in power vented or sealed combustion units - measure CO at exterior outlet, if accessible.

Recommend CO detector when gas furnaces/water heaters/ranges, or attached garages are present.

Appliance	Draft Test Vent Pipe WRT CAZ				Carbon Monoxide Measure before diverter				Spillage Y/N Record at 1 minute				
	Stand Alone Test		Combined Test		Stand Alone Test		Combined Test		Stand Alone Test		Combined Test		
	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	
Water Heater													
Heating System													
Other													
Power/Direct Vent Water Heater													
Condensing Furnace													
Gas Oven													

REMINDER: A combined test of heating system and water heater must be performed if both appliances are tied into the same flue before the masonry chimney.

Check for spillage at base of masonry chimney or diverter of water heater for induced draft furnaces.

IF UNIT(S) FAIL at WCD: Repeat test under natural conditions.

Combustion Safety Test Action Levels

CO Test Results	And / Or	Draft Test Results	Action
0 – 25 ppm	And	Passes	System is okay.
26 – 100 ppm	And	Passes	Recommend clean and tune to fix CO problem.
26 – 100 ppm	And	Fails at worse case only	1. Recommend clean and tune to fix CO problem and repairs to home to correct back drafting, or replace with power vent unit. 2. A spill alarm may be installed in this situation.
100 - 400 ppm	Or	Fails under natural conditions	1. Stop work: Work may not proceed until system is serviced and problem corrected. 2. Disclosure Form must be signed.
>400 ppm	And	Passes	1. Stop work: Work may not proceed until system is serviced and problem corrected. 2. Disclosure Form must be signed.
>400 ppm	And	Fails under any condition	Emergency: Shut-off fuel to appliance. Instruct homeowner to call for service immediately

Minimum Acceptable Draft Readings in pascals = $(T_{out} F^{\circ} \div 40) - 2.75$

Acceptable Draft Test Readings - Outdoor Temperature										
F	<10	20	30	40	50	60	70	80	>90	F
Pa	-2.5	-2.25	-2	-1.75	-1.5	-1.25	-1	-0.75	-0.5	Pa

Carbon Monoxide Action Levels for Gas Ovens

100 ppm to 300 ppm – Install CO detector and recommend service.	Greater than 300 ppm – Unit must be serviced prior to work. If greater than 300 ppm after service, install exhaust ventilation – 25 CFM continuous or 100 CFM intermittent.
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Customer Signature:

Certification: The following certifications are required in order for this form to substitute for the IRS form W-9. Under penalty of perjury, I certify that:

1. The number shown on this form is the correct taxpayer identification number.
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends or (c) the IRS has notified me that I am no longer subject to backup withholding.
3. I am a U.S. citizen (includes a U.S. resident alien).

I, the undersigned, agree that the stated energy-efficient measure(s) was (were) installed at the project site address listed above as part of the Focus on Energy program offering and that I am authorized to sign this application. I have read and agree to the Terms & Conditions within this application. To the best of my knowledge, the statements made on this application are complete, true and correct, and I have submitted the appropriate supporting documentation to receive an incentive.

This is a Focus on Energy program application for use by eligible applicants ("Applicant"). Shaw Environmental and Infrastructure, Inc. is the Program Administrator for Focus on Energy ("Program Administrator") and bound by contract to Statewide Energy Efficiency and Renewable Administration, Inc. ("SEERA"). The Program Administrator, Focus on Energy and the Applicant may be individually referred to herein as a "Party" and collectively as the "Parties".

Section 1. Incentive Offer: This Application covers products purchased and installed between January 1, 2012 and March 31, 2012. Applications must be postmarked within 30 calendar days of installation and no later than March 31, 2012. Applicants should maintain a copy of this application for their personal records. Incomplete applications will be returned and will not be processed. This application must have complete information and be submitted with proof of purchase such as invoices that clearly itemize the product(s) and/or services(s) received. Purchase orders, proposals and quotes are not considered proof of purchase.

Section 2. Marketing: The Applicant shall not use Program Administrator's or SEERA's corporate name, logo, identity, any affiliation, or any related logo including the "Focus on Energy" name, logo, or identity, for any marketing, advertising or solicitation without prior written consent of Focus on Energy. Such written consent may be withheld in Focus on Energy's sole discretion. When referencing Focus on Energy involvement with any project, the Applicant shall collaborate with Focus on Energy to prepare any press release and to plan for any news conference and agrees to provide Focus on Energy, for its written approval prior to publication, a written copy of any advertisements or promotional material regarding this program prior to publishing any such advertisements or promotional material. Focus on Energy reserves the right to publicize the Applicant's participation in the Focus on Energy program unless a written request is submitted to focusonenergy.marketing@shawgrp.com.

Section 3. Program Discretion: Rewards are available on a first-come, first-served basis. This offer is subject to change or termination without notice at the discretion of Focus on Energy. Some Focus participating electric and/or natural gas providers have incentive programs outside of Focus on Energy. Customers of these providers might not qualify for incentives from both programs. These customers should check with their electric and/or natural gas provider to verify eligibility for dual incentives in order to comply with program rules. Focus on Energy excludes internal labor (i.e. non-contracted labor) for private companies or individuals when calculating total project costs.

Applicants who are served by a participating electric provider but not a participating natural gas provider will only qualify for incentives for electric technologies. Applicants who are served by a participating natural gas provider but not a participating electric provider will only qualify for incentives for natural gas technologies. Applicants who have both a qualifying electric provider and a qualifying natural gas provider will qualify for incentives on both electric and natural gas technologies. Applicants who use Liquid Propane (LP) or other non-qualifying fuels will not qualify for incentives for any gas technologies.

Focus on Energy reserves the right to change or discontinue this program at any time without notice. Focus on Energy also reserves the right to withhold incentive payment until identified problems with a project are resolved and to withhold or terminate an incentive payment due to any party's failure to follow any and all applicable terms and conditions, rules, or procedures. The acceptance of incentive applications and qualification of systems is determined solely by Focus on Energy and acceptance of this application does not guarantee payment of an incentive. In the event that SEERA terminates, for any cause, Program Administrator's contract with SEERA, which terminates Program Administrator's right to act as Program Administrator of the Focus on Energy Program, responsibility for this Application shall be transferred to the new Program Administrator.

Section 4. Disclaimers, Representations, and Warranties: Focus on Energy, the Program Administrator, and SEERA (collectively for this section "Focus on Energy") do not endorse any particular trade ally, manufacturer, product, system, or design by offering an incentive. Focus on Energy is not responsible for any tax liability imposed on the recipient as a result of the payment of incentives. Focus on Energy makes no representation or warranty, and assumes no liability with respect to the quality, safety, performance, or other aspect of any design, consulting, product, system, equipment, or appliance installed or received and expressly disclaims any such representations, warranties, and liability, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. Focus on Energy does not guarantee that installation and operation of incentivized measures will result in reduced

energy usage or in cost savings. Focus on Energy is not responsible for the proper disposal/recycling of any waste generated as a result of this project. Focus on Energy is not liable for any damages, including any incidental or consequential damages, arising out of the operation or malfunction of the products, equipment, or appliances, or the installation thereof.

Section 5. Monitoring, Verification, Record Keeping, and Right to Inspect: Focus on Energy evaluates program efficacy by monitoring energy use/production prior to and after installation of your energy efficiency or renewable energy project. Focus on Energy, and its designated representatives, shall have the right to monitor energy use/production prior to and after installation of the project or to perform an inspection of project records or the project itself to evaluate program efficacy for a period of two (2) years from the date of incentive payment. The Applicant's signature on this application provides Focus on Energy approval to obtain energy data directly from your electric and/or natural gas provider(s). The Applicant and its subcontractors shall maintain accurate records of the project work (e.g., installation records, invoices, and maintenance information) that is performed hereunder for a period of two (2) years from the date of incentive payment.

Section 6. Indemnification: Applicants agree to protect, indemnify, defend and hold harmless Focus on Energy, Program Administrator, SEERA, the State of Wisconsin and participating utilities, their respective affiliates, subsidiaries, parent companies, officers, directors, agents, and employees, against all losses, damages, expenses, fees, costs and liability arising from any program, design, consulting, product, system, equipment, or appliance. The Applicant agrees that such obligations under this section shall survive any expiration or termination of this Application and shall not be limited by any enumeration herein of required insurance coverage. To the maximum extent permitted by law, the Applicant agrees to limit Program Administrator's liability to the Applicant for any reason to the total amount of the payments identified in this Agreement. This limitation shall apply regardless of the cause of action or legal theory pled or asserted. Applicant hereby expressly waives the right to specifically enforce this Application.

Section 7. Misrepresentation: Making false statements on any Focus on Energy incentive application is punishable by law. Any person who knowingly files an application containing any materially false information or who purposely and misleadingly conceals information commits a fraudulent act that subjects such person to criminal and civil penalties. Any and all funds determined, in Focus on Energy's sole discretion, to have been acquired on the basis of fraudulent or misrepresented information must be fully returned to the Focus on Energy program. Should the Applicant or its representative apply for and receive duplicate payment, Focus on Energy reserves the right to recover payments made in excess of the entitled Reward. This section shall not limit other remedies that may be available for the filing of false or fraudulent applications.

Section 8: Miscellaneous: (1). Governing Law. This Application shall be governed, construed and enforced in accordance with the internal laws of the State of Wisconsin, without regard to any law of conflicts that may direct the application of the laws of another jurisdiction. The Applicant irrevocably submits to the original jurisdiction of the state and federal courts sitting in Madison, Wisconsin with regard to any controversy in any way relating to the execution, delivery or performance of this Application that is not resolved by Arbitration. Suits, claims or actions founded upon such controversies shall be brought or filed exclusively in such courts and nowhere else. The exclusive venue for any dispute or controversy arising under this Agreement shall be the Dane County, Wisconsin Circuit Court or the Federal District Court for the Western District of Wisconsin.

(2) Compliance with Applicable Laws. The Applicant shall at all times comply with and observe all federal and Wisconsin state laws and published circulars, local laws, ordinances, rules and regulations which are in effect during the period of this Application and which in any manner affect the performance of this Agreement. This Application shall be construed and enforced, in accordance with the laws of the State of Wisconsin and the laws of the United States. All references to statutes or regulations contained in this Application shall be construed to include successors thereto.

(3). Assignment. Focus on Energy may assign, transfer or convey this Application or any of Focus on Energy's rights, obligations, interests or responsibilities hereunder, in whole or in part, without the consent of the Applicant.

(4). Severability. If any provision of this Application is illegal, invalid, or unenforceable under present or future laws effective during the term of this Application, that provision shall be fully severable and this Application shall be construed and enforced as if the illegal, invalid, or unenforceable provision had never comprised a part of this Application. The remaining provisions of this Application shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provision or by its severance. Furthermore, in lieu of such illegal, invalid, or unenforceable provision, this Application shall be reformed to include as a part of this Application a provision as similar in terms to the illegal, invalid, or unenforceable provision as may be possible and still be legal, valid, or enforceable.

(5). Risk of Loss. Focus on Energy and Program Administrator at no time assumes risk of loss for any personal property of the Applicant.

(6). Waiver. Failure or delay on the part of either party to exercise any right, power, privilege or remedy hereunder shall not constitute a waiver thereof. A waiver of any default shall not operate as a waiver of any other default or of the same type of default on a future occasion.