STATE OF MAINE WEATHERIZATION ASSISTANCE PROGRAM

MAINE ENERGY AUDIT FIELD FORM

Name:			Phone:	
Address:			Town:	
Directions and Spec	ial Problems:			
Audited by:			Inspected by:	
Date:			Date:	
Building Type:			Comments:	
Occupied Building, F	ft ² =	Occupied, Conditioned	Volume, Ft ³ =	
Building Age =		Building Condition:		
Yearly Fuel Consum	ption, Quantity or Dol	lars, Primary System =	Secondary	System =
Btu/Ft ² /DD Primary F	uel =	(Note: Exclude Domestic	Hot Water Energy)	
Btu/Ft²/DD Seconda	ry Fuel =	(Note: Exclude Domestic	c Hot Water Energy) Degre	ee Days =
Total Btu/Ft ² /DD =		Comments:		
	POL	LUTION/MOISTURE AS	SSESSMENT	
CLIENT	МО	ISTURE	MOLD/MILDEW/COND.	OTHER HAZARDS
Smokers	Dirt Floor	Sill Rot	Crawlspace	Lead Paint
Fatigue	Standing Water	Kitchen Vent	Basement	Asbestos
Asthma	Sump Pump	Bathroom Vent	Bathroom	Radon
Dehumidifier	Water Staining	Roof Leaks	Kitchen	Unsafe Wiring
Bronchitis	Efflorescence	Gutters	Attic	Carbon Monoxide
Humidifier	Firewood	Plumbing Leaks	Windows	Unvented
Flu Symptoms	Clothes Drying	Humidifier Use	Closets	Combustion
Other	Dryer Not Vented	Aquarium	Ceiling	Other
Other	Unvented Space Heater	Other	Walls	Other
Other	Other	Other	Other	Other
Is there a need for m	echanical ventilation	?		
Comments:				
		R TEST DATA - BUILDI	NG TIGHTNESS LIMITS	
Blower Door Test Lo	cation:		BTL (Building Tightness	Limit) = CFM ₅₀
Blower Door Configu	ıration: Open Rinç	g A Ring B Ring C	Stories = No.	of Occupants =
Test Conditions:			Wind Shielding Factor =	N Value =
Initial Test: CFM ₅₀ =	Date:	Tester:	BTLa Procedure	1. ELA = 2. EqLA =
Final Test: CFM ₅₀ =	Date:	Tester:	Flow Exponent =	3. CFMnat=
Total CFM ₅₀ Reducti Major Leakage Sites			Weather Factor = Bldg. Height = Story Height = Occupant Count =	4. ACHnat = 5. CFMnat/Occ 6. ELAmin = 7. CF Mmin 8. Vent. CFM

ACCEPTABLE DRAFT PRESSURES BUILDING DEPRESSURIZATION CHART FOR ATMOSPHERIC APPLIANCES Outside Temp. Breech Draft Pressure Below 20°F -5.0 Pascals (-0.02" W.G.) 20° F to 40° F -4.0 Pascals (-0.016" W.G.) 40° F to 60° F -3.0 Pascals (-0.012" W.G.) $60^{\circ}F$ to $80^{\circ}F$ -2.0 Pascals (-0.008" W.G.) Above 80°F -1.0 Pascals (-0.004" W.G.) ACCEPTABLE DRAFT PRESSURES FOR APPLIANCES W/ BAROMETRIC DAMPERS For Pre-Wx use this chart or DTL in ZipTest Pro, TI-86 Overfire: -5 Pa (-0.02" W.G.) CFM = $(CFM_{50/50}^{0.65})(Pressure Difference^{0.65})$ Chart Equation: Breech: -10 Pa to -15 Pa (-0.04" to -0.06" W.G.) **COMBUSTION APPLIANCES** AIR-EXHAUST DEVICES **PRIMARY HEATING** SECONDARY HEATING **DEVICE CFM VENT** Kitchen (100) Type: Type: Fuel: Fuel: Bath 1 (50) **Before** After Before After Bath 2 (50) Draft, O.F. Draft, O.F. Cntrl. Vac. (150) Draft. Draft, Breech Cntrl. Vent Smoke Attic Fan Smoke Whole-Hse, Fan O₂ or CO₂ O₂ or CO₂ CO <50 ppm CO <50 ppm Dryer (180) Fireplace (400) Net Temp. Net Temp. S.S. Eff. % S.S. Eff. % Woodstove Chimney Chimney Other OK or Bad OK or Bad OK or Bad OK or Bad Comb. Air Comb. Air **TOTAL** Comments: Comments: Need for ventilation? WATER HEATER GAS OVEN/RANGE **BACKDRAFT TESTING** CAZ/Outdoor should be -5 Pa or more Condition: Type: Use chart at top to assist w/ Pre-Wx Before After Before After CO ppm CO Oven Pre-Wx Post-CO Burners Outdoor Temp. Draft °F ٥F CAZ Door Temp. Set. Opn/Cls Opn/CI Vented Vented Appliance 1: Comb. Air Ambient CO Spillage Comments: Comments: CAZ Depress. **GAS CLOTHES DRYER FIREPLACE** Appliance 2: **Before** After After **Before** Spillage Vented Used? CAZ Depress. CO ppm Chimney Comb. Air Damper Appliance 3: Comments: Comb. Air Spillage Comments: CAZ Depress.

			Build	ing Assess	sment		
			ΑT	TIC/CEILII			
	INSULA		T	T	SERIES	LEAKAGE TEST	
Location	Area	Туре	Pre - R	Added R		Before Wx	After Wx
					House/Zone)P ₁		
					Zone/Outside)P ₁		
					Hole Added	H/Z or Z/O	H/Z or Z/O
					Hole Size, in2 or Door Open CFM ₅₀		
					House/Zone)P ₂		
					Zone/Outside)P ₂		
					CFM ₅₀ House/Zone		
					CFM ₅₀ Zone/Outside		
					CFM ₅₀ Total Path		
Ventilation:					Notes:		
				WALLS			
	INSUL/		T		SERIES	LEAKAGE TEST	
Location	Area	Туре	Pre - R	Added R		Before Wx	After Wx
					House/Zone)P ₁		
					Zone/Outside)P ₁		
					Hole Added	H/Z or Z/O	H/Z or Z/O
					Hole Size, in2 or Door Open CFM ₅₀		
					House/Zone)P ₂		
					Zone/Outside)P ₂		
					CFM _{50 House/Zone}		
					CFM _{50 Zone/Outside}		
O' I' -					CFM _{50 Total Path}		
Siding Type:			DACEME		Notes:		
	INSULA	\TIONI	BASEINE	NT/CRAW		LEAKAGE TEST	re
Location	Area	Type	Pre - R	Added R	SERIES	Before Wx	After Wx
Location	Alea	туре	116-10	Added IX	House/Zone)P ₁	Delote VVX	Aitei VVX
					Zone/Outside)P ₁		
					Hole Added	H/Z or Z/O	H/Z or Z/O
					Hole Size, in2 or		
					Door Open CFM ₅₀		
					House/Zone)P ₂		
					Zone/Outside)P ₂		
					CFM _{50 House/Zone}		
					CFM ₅₀ Zone/Outside		
					CFM _{50 Total Path}		
					- ···ou iolaiFalli	<u> </u>	<u> </u>

				DUCT	NORK ASSESSI	MENT		Before Wx	After Wx
יסם	MINANT DUCT LE	AK: Main D	ody MPT	Outoide	Air Handlor On			Delote vvx	Aitei WX
	STER BEDROOM					ir Handler On			
	INTERIOR DOOR				•				
	EPLACE/WOODS						On		
	SSURE IN EACH			•			OII		
#	Room	Before	After	#	Room	Before	After		
1	Room	Deloie	Aitei	9	Room	Belore	Aitei	-	
2				10				-	
3				11				-	
4				12					
5				13					
6				14					
7				15					
8			<u> </u>	16					
	room is more than								
	s a fireplace or woo ressurized more tha						nat is		
uep	essunzea more un	an -s Pasca	IIS VVRI C	utside?	ii so, pressure ii	elleve.			
Δς	FOUND PRESSUR	E DIEEERI	ENCE.						
_	up house as you fo		_	RT outs	ide. Air Handler C)n			
	- , ,				,				
STA	TIC PRESSURE in	Supply Ple	enum of S	System 1	l ofSyste	ems, Air Handl	er On		
DUO	T DECLARATION	I: Type of [Duct Syste	em You	Predict After Rep	air		Circle No.	
In	side by Pressure =	1 Outsid	e by Pres	sure = 2	2 Inside/Outside	by Pressure	= 3	1 2 3	
	SSURE PAN TES					Pascal			
#	Room	Before	After	#	Room	Before	After		
1				11					
2				12					
3				13					
4				14					
5				15					
6				16					
7				17					
8				18					
9				19					
10				20					
Note	es:	1	1	<u> </u>		<u>l</u>	I		
- •									

closed. w Close the supply registers and any other closable opening in the CAZ. w If air flows from the main body of the house to a closed room, open that door.	No	Circle Door Door Yes Yes	Answer: Open or Closed No No RES Pascals
w Air handler fan on. w All devices that exhaust air on. w All interior doors closed. w Close the supply registers and any other closable opening in the CAZ. w If air flows from the main body of the house to a closed room, open that door. w EXCEPTION: if air flows from the CAZ to the main body of the house, open the door between the main body and the CAZ. Is this door open or closed? w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Pascals Poor Answer: Door Open or No No	Circle Door Door Yes Yes	Answer: Open or Closed No No RES Pascals
closed. w Close the supply registers and any other closable opening in the CAZ. w If air flows from the main body of the house to a closed room, open that door. w EXCEPTION: if air flows from the CAZ to the main body of the house, open the door between the main body and the CAZ. Is this door open or closed? w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Door Open or	Door Door Yes Yes	No RES Pascals
flows from the main body of the house to a closed room, open that door. w EXCEPTION: if air flows from the CAZ to the main body of the house, open the door between the main body and the CAZ. Is this door open or closed? w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	or Poor Closed No No No PING TEST PR Pascals Pascals	Poor Yes Yes	or Closed No No RES Pascals
w EXCEPTION: if air flows from the CAZ to the main body of the house, open the door between the main body and the CAZ. Is this door open or closed? w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? **ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU* w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No No No No PING TEST PR Pascals Pascals	Yes Yes	No No RES Pascals
door between the main body and the CAZ. Is this door open or closed? w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No No No No No PING TEST PR Pascals Pascals	Yes Yes	No No RES Pascals
w Fire the furnace, vented heaters and gas water heaters. w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No WING TEST PR Pascals Pascals	Yes	No RES Pascals
w Flame roll out from any combustion appliances? Circle Answer: w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? **ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No WING TEST PR Pascals Pascals	Yes	No RES Pascals
w If "yes," which appliance? w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? **ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU* w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No WING TEST PR Pascals Pascals	Yes	No RES Pascals
w Spillage for combustion gases for more than 30 seconds? Circle Answer: w If "yes," which appliance? w For what length of time did spillage occur? **ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU* w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	No WING TEST PR Pascals Pascals	Yes	No RES Pascals
w If "yes," which appliance? w For what length of time did spillage occur? **ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU* **Weasure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. **Weasure water heater draft: Vent WRT CAZ. (See page 2, top left corner) **Weasure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) **Weasure Carbon Monoxide**	ING TEST PR Pascals Pascals		RES Pascals
w For what length of time did spillage occur? ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	ING TEST PR Pascals Pascals		RES Pascals
ALLOW 5 MINUTES FROM INITIAL FIRING FOR WARM UP BEFORE CONTINU w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Pascals Pascals	OCEDUI	Pascals
w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Pascals Pascals	OCEDUI	Pascals
w Measure pressure difference of CAZ WRT outside. If -5 Pascals or less, e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Pascals Pascals	OCEDOI	Pascals
e.g., -7, then pressure relief is required. w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide	Pascals		
w Measure water heater draft: Vent WRT CAZ. (See page 2, top left corner) w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide			Pascals
w Measure central furnace draft: Vent WRT CAZ. (See page 2, top left corner) w Measure Carbon Monoxide			rascais
w Measure Carbon Monoxide			Pascals
	1 400410		i ascais
w water heater		1	
	ppm	1	ppm
w Central furnace	ppm		ppm
w Other combustion appliance	ppm		ppm
w Measure Heat Rise across the heat exchanger of the furnace. The specified			
range for the heat rise can be found on the name plate. <i>If no heat rise label</i> can be found, temperature rise should be within a range of $40^{\circ}F$ to $80^{\circ}F$. <i>If</i>		°F	
the heat rise is outside of this range, then service is required.		'	
SPECIAL CASE: EXHAUST FAN IN THE COMBUSTION APPLIANCE ZONE:			
w Is the combustion appliance zone positive by either dominant duct leakage or			
interior door closure? Circle Answer:	No	Yes	No
w If "yes," then draft pressures must be more negative then air-exhausting device	-	1	
depressurization, or pressure relief may be needed. Is pressure relief needed?	No	Yes	No
		•	
Notes:			

HOLE METHOD		<u>DUC</u> T AS	SESSMENT		
HOLL WETHOD	Before Wx	After Wx	MODIFIED BLOWER DOOR METHOD	Before Wx	After Wx
† Air Handler Off			† Air Handler Off		
† Seal All Reg. and Grilles			† Remove all HVAC filters		
House/Duct)P ₁			Open Reg./Grilles CFM ₅₀		
Duct/Outside)P ₁			† Seal All Reg. and Grilles		
Hole Added (Circle one)	H/D or D/O	H/D or D/O	Closed Reg./Grilles CFM ₅₀		
Added Hole, in ²			House/Duct)P		
Hole)P			Duct/Outside)P		
House/Duct)P ₂			House/Duct CFM ₅₀		
Duct/Outside)P ₂			Duct/Outside CFM ₅₀		
House/Duct CFM ₅₀	1		Notes:		
Duct/Outside CFM ₅₀			-		
Notes:	;_		- -		
NELSON WITH TWIST METHOD	Before Wx	After Wx	NELSON METHOD	Before Wx	After Wx
† Air Handler On			† Air Handler On		
Supply Hole, in ²			† Seal All Reg. and Grilles		
Supply Hole)P			Average Supply)P ₁		
Return Hole, in ²			Average Return)P ₁		
Return Hole)P			† Add a Hole		
Average Supply)P ₁			Supply Hole, in ²		
Average Return)P ₁			Supply Hole)P		
† Add a Hole:			Return Hole, in ²		
Supply Hole, in ²			Return Hole)P		
Supply Hole)P	+		Average Supply)P ₂		
Return Hole, in ²	+		Average Return)P ₂		
Return Hole)P	+		Return CFM ₅₀		
Average Supply)P ₂	+		Supply CFM ₅₀		
Average Return)P ₂	+		Total CFM ₅₀		
Return CFM ₅₀	+		Notes:		
Supply CFM ₅₀	+				
Total CFM ₅₀	+				
Notes:					