



Inspection Date:

Job/Client Information

Client name:		Client/Job number:	
Address:		Home:	
		Phone:	Work:
			Cell:

Client Interview notes:

Initial Health and Safety Inspection

Ambient CO Level:	ppm			SWS Detail
				2.0101
Mold or moisture:	☐ P ☐ F	Gas odor:	☐ P ☐ F	2.0102
		Fire hazards:	☐ P ☐ F	2.02

Equipment Information

Fuel type:	☐ Natural	☐ Propane	Btuh Input:			
Furnace type:	☐ Draft hood	☐ 80%	☐ 90%	☐ Mobile home		☐ Space
Application:	☐ Up flow	☐ Down flow	☐ Horizontal	☐ Lowboy		☐ Package
Make:		Model:		Serial:		
Temperature rise minimum:	°F	Maximum:	°F	Manifold pressure:		In. W.C
Furnace Location (CAZ):				Water heater:		☐ Gas ☐ Electric
WH Location (CAZ):				Btuh input:		
Stove is:	☐ Gas	☐ Electric	Dryer is:	☐ Gas	☐ Electric	

Form Instructions

This Form and associated tasks must be completed by qualified auditors, inspectors or heating technicians

Is this the final inspection of a job with a new furnace installed?

If yes, only the CAZ Combustion Safety and Temperature Rise required to be completed on final.

Indiana Weatherization Gas Appliance Inspection Form

Gas Piping Inspection

	Auditor		Tech		Interim		Final		SWS Detail
	P	F	P	F	P	F	P	F	
Free of gas leaks	☐	☐	☐	☐	☐	☐	☐	☐	5.0504.1
Proper materials and configuration	☐	☐	☐	☐	☐	☐	☐	☐	

Vent System Inspection

Describe vent system: ☐ Masonry ☐ B-Vent ☐ Liner ☐ Factory ☐ PVC ☐ Single

Common vent: Diameter or area: in. Vent height: ft.

Water heater connector: ☐ B-Vent ☐ Single Diameter: in. Rise: ft. Lateral: ft.

Furnace connector: ☐ B-Vent ☐ Single Diameter: in. Rise: ft. Lateral: ft.

Reductions for extra elbows or offsets:

	Auditor		Tech		Interim		Final		SWS Detail
	P	F	P	F	P	F	P	F	
Configuration proper(rise, lateral, etc.)	☐	☐	☐	☐	☐	☐	☐	☐	5.0503
Condition good(corrosion, blockage, etc..)	☐	☐	☐	☐	☐	☐	☐	☐	
Proper materials for system	☐	☐	☐	☐	☐	☐	☐	☐	
Clearance to combustibles met	☐	☐	☐	☐	☐	☐	☐	☐	

Combustion Air

Pre weatherization equipment inputs and available combustion air:

Total Btuh of equipment in CAZ:	Btuh	Divided by 20	cu.ft.	5.0502
Add the cu.ft. of these two lines together. This is the minimum volume needed:			cu.ft.	
Calculate volume (L x W x H) that communicates with the CAZ.		Available volume	cu.ft.	
Projected combustion air requirements after modifications are made or equipment is replaced				
Total Btuh of equipment in CAZ:	Btuh	Divided by 20	cu.ft.	5.0502
Add the cu.ft. of these two lines together. This is the minimum volume needed:			cu.ft.	
Calculate volume (L x W x H) that communicates with the CAZ.		Available volume	cu.ft.	

Thermostat

	Auditor		Tech		Interim		Final		SWS Detail
	P	F	P	F	P	F	P	F	
Thermostat location functional	☐	☐	☐	☐	☐	☐	☐	☐	5.0101.1
Level and hole sealed	☐	☐	☐	☐	☐	☐	☐	☐	
If replacing mercury based thermostat, remove safely and disposed of in accordance with EPA regulations									

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Water Heater

	Auditor		Tech		Interim		Final		
	P	F	P	F	P	F	P	F	
Water heater level	☐	☐	☐	☐	☐	☐	☐	☐	2.0103
T & P valve properly installed	☐	☐	☐	☐	☐	☐	☐	☐	
Water heater or T & P leaking	☐	☐	☐	☐	☐	☐	☐	☐	
If the water heater is leaking, replacement is required. If the T&P is leaking, replace the T&P valve or install an expansion tank. Install an expansion tank with any water heater replacement if required by local code. Note: Turn WH back down before taking temperature if it was raised for testing.									7.0302
Water temperature between 120-125	°F		°F		°F		°F		

Ducts and Filter System

Filter system				Auditor		Tech		Interim		Final		
				P	F	P	F	P	F	P	F	
Filter size:		X		X								5.3001.2
Filter clean and properly supported					☐	☐	☐	☐	☐	☐	☐	
User friendly filter					☐	☐	☐	☐	☐	☐	☐	

Ducts		Auditor		Tech		Interim		Final		
		P	F	P	F	P	F	P	F	
Open returns or disconnects		☐	☐	☐	☐	☐	☐	☐	☐	3.1602.1
Insulation of ducts required		☐	☐	☐	☐	☐	☐	☐	☐	4.1601.2

Electrical Safety

	Auditor		Tech		Interim		Final		
	P	F	P	F	P	F	P	F	
Polarity to furnace correct			☐	☐	☐	☐	☐	☐	
Furnace properly grounded			☐	☐	☐	☐	☐	☐	
Switch within reach of furnace			☐	☐	☐	☐	☐	☐	

Furnace cleaning and heat exchanger inspection

	N/A	Auditor		Tech		Interim		Final		
		P	F	P	F	P	F	P	F	
Heat exchanger cracks or holes				☐	☐	☐	☐	☐	☐	5.0109
Burners and heat exchanger clean				☐	☐	☐	☐	☐	☐	
Blower and coils clean				☐	☐	☐	☐	☐	☐	
Condensate drain system cleaned	☐	☐	☐	☐	☐	☐	☐			

If a crack or hole is found, the heat exchanger or furnace must be replaced!

If replacement is required for a Health & Safety reason, note reason below:

CAZ Depressurization Testing

Baseline test Set-up

	Auditor	Tech	Interim	Final	SWS Detail
Turn all combustion appliances off	☐ Done	☐ Done	☐ Done	☐ Done	5.0501
Remove forced air furnace filter	☐ Done	☐ Done	☐ Done	☐ Done	
Close all exterior openings	☐ Done	☐ Done	☐ Done	☐ Done	
Close all fireplace, wood stove dampers	☐ Done	☐ Done	☐ Done	☐ Done	
Set-up gauge: CAZ w/ reference to outside	☐ Done	☐ Done	☐ Done	☐ Done	
Record baseline CAZ pressure	Pa	Pa	Pa	Pa	

Blower off test set-up

	Auditor	Tech	Interim	Final	
Turn on dryer and all exhaust fans	☐ Done	☐ Done	☐ Done	☐ Done	
Blower door @ 300 CFM for fireplace	☐ Done	☐ Done	☐ Done	☐ Done	
CAZ supplies closed, all others open	☐ Done	☐ Done	☐ Done	☐ Done	
Close doors to rooms w/o exhaust fans	☐ Done	☐ Done	☐ Done	☐ Done	

Room doors do not need to be tested at this time. Smoke or pressure test only the doors that separate stories or sections of the home to determine door position with the CAZ at your back.

- Positive pressure (smoke blows toward you): close the door. • Negative pressure (smoke pulls under the door): open the door.

	Auditor	Tech	Interim	Final	
Blower off with CAZ door open	Pa.	Pa.	Pa.	Pa.	
Blower off with CAZ door closed	Pa.	Pa.	Pa.	Pa.	

Blower on test set-up

Turn blower on, smoke or pressure test all doors to rooms with supplies and exhaust or returns to determine door position with CAZ at your back. Positive pressure (blows smoke toward you) close door. Negative pressure (sucks smoke under) open door. Retest doors that separate stories or sections of the house.

	Auditor	Tech	Interim	Final	
Blower on with CAZ door open	Pa.	Pa.	Pa.	Pa.	
Blower on with CAZ door closed	Pa.	Pa.	Pa.	Pa.	
Worst-case pressure adjusted for baseline	Pa.	Pa.	Pa.	Pa.	
Outdoor temp.	°F	°F	°F	°F	

Water Heater(or smallest Btuh input appliance) Combustion Safety Test

Set-up CAZ in "worst case" condition for testing, monitor ambient carbon monoxide while testing

	Auditor		Tech		Interim		Final		
	P	F	P	F	P	F	P	F	
Fire the water heater	☐	☐	☐	☐	☐	☐	☐	☐	
Establishes flow within 5 seconds	☐	☐	☐	☐	☐	☐	☐	☐	
Passes spillage test within 2 minutes	☐	☐	☐	☐	☐	☐	☐	☐	
Draft pressure after 5 minutes		Pa		Pa		Pa		Pa	
		"w.c.		"w.c.		"w.c.		"w.c.	
Carbon monoxide after 5 minutes		/ ppm		/ ppm		/ ppm		/ ppm	

(Note: Leave water heater fired for re-test purposes)

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Furnace(or larger Btuh input appliance) Combustion Safety Test

	Auditor		Tech		Interim		Final		SWS Detail
Fire the furnace	P	F	P	F	P	F	P	F	
Establishes flow within 5 seconds	☐	☐	☐	☐	☐	☐	☐	☐	
Passes spillage test within 2 minutes	☐	☐	☐	☐	☐	☐	☐	☐	
Re-test water heater after an 80% furnace burners fire or when there is no spillage from draft hood appliance. Also re-test water heater after firing any other vented appliance that shares combustion air.									
Spillage at the water heater draft hood	☐	☐	☐	☐	☐	☐	☐	☐	
Re-test draft pressure on water heater		Pa		Pa		Pa		Pa	
		"w.c.		"w.c.		"w.c.		"w.c.	
Was there reduction in draft when any combustion appliance that shares vent system or combustion air was fired	P	F	P	F	P	F	P	F	
	☐	☐	☐	☐	☐	☐	☐	☐	
Furnace draft pressure after 5 minutes		Pa		Pa		Pa		Pa	
		"w.c.		"w.c.		"w.c.		"w.c.	
Furnace CO in flue gas after 5 minutes		ppm		ppm		ppm		ppm	
CO in each cell on draft hood									

Furnace Operational Testing

Combustion Analysis

	Pre Tune-up	Post Tune-up	SWS Detail
Carbon monoxide	ppm	ppm	5.3003.14
Oxygen	%	%	
Carbon dioxide	%	%	
Excess air	%	%	
Steady State Efficiency	%	%	
Stack temperature	°F	°F	

Verify Input

* Clock meter if possible

* Tech to check manifold pressure for propane or digital meter

Digital Meter ☐ Propane ☐ Furnace gas manifold pressure "w.c.

Time seconds for 2 cu.ft. gas flow, e.g. 4 turns of 1/2 ft. dial or 8 turns of 1/4 ft. dial

	Auditor	Tech	Interim	Final	
7200 ÷ Seconds for 2 cu.ft. flow	cu.ft.	cu.ft.	cu.ft.	cu.ft.	5.0502
Average Btu content of gas used	X Btu				
Multiply cu.ft. per hour by Btu content of gas equals Btuh input	Btuh input	Btuh input	Btuh input	Btuh input	

Input must be within 5 % of rated input without going over

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Air Flow

	Auditor	Tech	Interim	Final	SWS Detail
Supply air temperature	° F.	° F.	° F.	° F.	
Return air temperature	° F.	° F.	° F.	° F.	
Temperature rise	° F.	° F.	° F.	° F.	
Temp rise within specifications	☐ P ☐ F	☐ P ☐ F	☐ P ☐ F	☐ P ☐ F	

If rise not within specifications, auditor or technician shall calculate airflow and test system static pressures to determine corrective measures

Verify Controls

	P	F		
Limit switch functions	☐	☐		
Record plenum temperature when tripped:		° F.		
Record and adjust fan off temperature	° F.	° F.		° F.

Air flow calculation by temperature rise method

Heat output: Use Btuh input multiplied by efficiency e.g., 100,000 input X 90% = 90,000 output

Calculation: Heat output ÷ (temperature rise X 1.08) = CFM

Temperature rise: °F Multiplied by 1.08 equals: °F Adjusted temperature rise

Btuh output: Divided by adjusted temperature rise = cfm

Static Pressure Readings

A: Supply duct static pressure			
B: Furnace total supply static pressure			
C: Furnace total return static pressure			
D: Return duct static pressure			

Subtract A: Supply duct static from B: Furnace total supply static pressure	"w.c.	
Pressure drop across coil:		
Add B: Furnace total supply static pressure to C: Furnace total return static pressure	"w.c.	
Total or External static pressure:		
Subtract D: Return duct static pressure from C: Furnace total return static pressure	"w.c.	
Pressure drop across filter:		

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Health & safety issues to be addressed

		Completed	
1	_____	Y	☐ N ☐
2	_____	Y	☐ N ☐
3	_____	Y	☐ N ☐
4	_____	Y	☐ N ☐
5	_____	Y	☐ N ☐
6	_____	Y	☐ N ☐
7	_____	Y	☐ N ☐
8	_____	Y	☐ N ☐
9	_____	Y	☐ N ☐
10	_____	Y	☐ N ☐

Client Education

		SWS Detail
Basic operation of equipment explained to the client	☐ Done	
Operation of thermostat explained to the client	☐ Done	2.0702.2
Disconnects and fuel shut offs shown to the client	☐ Done	2.0702.2
Proper filter selection and how to change filter will be explained	☐ Done	5.3003.7
Location of combustion air inlets identified for client and importance of not blocking inlets explained to the client	☐ Done	2.0702.3

Initial inspection performed by: _____ Date: _____

Signature: _____

Mechanical work performed by: _____ Date: _____

Signature: _____

Interim inspection performed by: _____ Date: _____

Signature: _____

Final inspection performed by: _____ Date: _____

Signature: _____

Notes: _____

Indiana Weatherization Gas Appliance Inspection Form



Pg. 1

Gas Meter Dial Used						
Secandr far one revolution	One Half cu. Ft.	One cu. Ft.	Two cu. Ft.	Five cu. Ft.	Ten cu. Ft.	
Cubic Feet Per Hour						
10	180	360	720	1800	3600	
11	164	327	655	1634	3272	
12	150	300	600	1500	3000	
13	138	277	555	1385	2770	
14	129	257	514	1286	2572	
15	120	240	480	1200	2400	
16	112	225	450	1125	2250	
17	106	212	424	1059	2118	
18	100	200	400	1000	2000	
19	95	189	379	947	1894	
20	90	180	360	900	1800	
21	86	171	343	857	1714	
22	82	164	327	818	1636	
23	78	157	313	783	1566	
24	75	150	300	750	1500	
25	72	144	288	720	1440	
26	69	138	277	692	1384	
27	67	133	267	667	1334	
28	64	129	257	643	1286	
29	62	124	248	621	1242	



Pg. 3

Gas Meter Dial Used						
Secandr far one revolution	One Half cu. Ft.	One cu. Ft.	Two cu. Ft.	Five cu. Ft.	Ten cu. Ft.	
Cubic Feet Per Hour						
50	36	72	144	360	720	
51	35	71	141	353	706	
52	35	69	138	346	692	
53	34	68	136	340	680	
54	33	67	133	333	666	
55	33	65	131	327	654	
56	32	64	129	321	642	
57	32	63	126	316	632	
58	31	62	124	310	620	
59	30	61	122	305	610	
60	30	60	120	300	600	
62	29	58	116	290	580	
64	29	56	112	281	562	
66	29	54	109	273	546	
68	28	53	106	265	530	
70	26	51	103	257	514	
72	25	50	100	250	500	
74	24	48	97	243	486	
76	24	47	95	237	474	
78	23	46	92	231	462	



Pg. 2

Gas Meter Dial Used						
Secandr far one revolution	One Half cu. Ft.	One cu. Ft.	Two cu. Ft.	Five cu. Ft.	Ten cu. Ft.	
Cubic Feet Per Hour						
30	60	120	240	600	1200	
31	58	116	232	581	1162	
32	56	113	225	563	1126	
33	55	109	218	545	1090	
34	53	106	212	529	1058	
35	51	103	206	514	1028	
36	50	100	200	500	1000	
37	49	97	195	486	972	
38	47	95	189	474	948	
39	46	92	185	462	924	
40	45	90	180	450	900	
41	44	88	176	440	880	
42	43	86	172	430	860	
43	42	84	167	420	840	
44	41	82	164	410	820	
45	40	80	160	400	800	
46	39	78	157	391	782	
47	38	77	153	383	766	
48	37	75	150	375	750	
49	37	73	147	367	734	



Pg. 4

Gas Meter Dial Used						
Secandr far one revolution	One Half cu. Ft.	One cu. Ft.	Two cu. Ft.	Five cu. Ft.	Ten cu. Ft.	
Cubic Feet Per Hour						
80	22	45	90	225	450	
82	22	44	88	220	440	
84	21	43	86	214	428	
86	21	42	84	209	418	
88	20	41	82	205	410	
90	20	40	80	200	400	
94	19	38	76	192	384	
98	18	37	74	184	368	
100	18	36	72	180	360	
104	17	35	69	173	346	
108	17	33	67	167	334	
112	16	32	64	161	322	
116	15	31	62	155	310	
120	15	30	60	150	300	
130	14	28	55	138	276	
140	13	26	51	129	258	
150	12	24	48	120	240	
160	11	22	45	113	226	
170	11	21	42	106	212	
180	10	20	40	100	200	

Minimum Draft Pressure Requirements

Outdoor Temperature	Inches of water column	Pascals
Greater than 80 degrees F	Negative 0.005 " w.c.	Negative 1 Pa
Between 60 and 80 degrees F.	Negative 0.008" w.c.	Negative 2 Pa
Between 40 and 60 degrees F.	Negative 0.012" w.c.	Negative 3 Pa
Between 20 and 40 degrees F.	Negative 0.016" w.c.	Negative 4 Pa
Less than 20 degrees F.	Negative 0.02" w.c.	Negative 5 Pa