State of North Dakota

Weatherization Assistance Program

Heating System Clean, Tune, and Inspection Form

Job#					
lame:	A	ddress:		Phone:	
	Heating		Input:	Owner/Renter	
Fuel Type:	System Typ		Output:	Date:	
	Pre-test	Post-test		Pre-test	Post-test
Gas leaks:	Y / N	Y / N	Open air returns	Y / N	Y / N
enting problems	Y / N	Y / N	Missing main shutoff	Y / N	Y / N
Carbon indicators	Y / N	Y / N	Asbestos	Y / N	Y / N
Ductwork holes	Y / N	Y / N	Heat exchanger check	Y / N	Y / N
Anticipator:	Measured:	Set	at:	Reset:	
Cycling on high limit	Y / N	Y / N	Oil system smoke test		
an on/off temp	/	/	Draft, breech		
Spillage/backdraft	Y / N	Y / N	Draft, overfire		
Heatrise s-s pre		=	Heatrise s-s post		=
Carbon monoxide	ppm	ppm	High limit temp	<u></u>	
Check filter	Y / N	Y / N	Clean heat exchanger	Y / N	Y / N
Cleaned blower	Y / N	Y / N	Check belt	Y / N	Y / N
Blower amp. draw	Y/N Y	/N	A-coil dirty	Y / N	Y / N
Net stack temp			O ₂ % or CO ₂ %		
Efficiency %					
Check duct integrity			Run final furnace cycle		Y / N
H ₂ O heater CO	ppm	ppm	Draft H ₂ 0 heater		
Comments/\	Narning				
			,		
Technician Signature					
I understand the above North Dakota Heating Systems		Revised 11/11	/2002	Date:	

Acceptable Combustion Test Analysis Values				
Heating Unit Type	Oxygen (O2)	Net Stack Temp.	Smoke Test	
Gas				
Atmospheric	4-9 percent	300-600°F	NA	
Fan-assisted	4-9 percent	300-480 °F	NA	
Condensing	See man. Info.	See man. Info.	NA	
Standard Power Burner	4-9 percent	300-650 °F	NA	
Oil (No. 1 & 2)				
Oil gun burner	4-9 percent	325-600 °F	1 or less	
Flame Retention burner	4-7 percent	325-600 °F	1 or less	

Atmospheric Gas Appliances Only					
Acceptable Draft Test Readings for Various Outdoor Temperature Ranges					
F°	<20	21-40	41-60	61-80	>80
Pascals	-5	-4	-3	-2	-1
Water Column inches	02	016	012	008	004

Power Oil Burners Acceptable Draft Readings Overfire and at Breech			
Draft Reading Location	Acceptable Draft		
Overfire Draft	-0.02 inches or -5 Pascals		
Vent Connector or Breech	-0.04 to -0.06 or -10 to -15 Pascals		

---- For Use with Carbon Monoxide Testing ----

Carbon Monoxide (CO) Action Levels and Allowable Levels					
Appliance	Action CO Level	Allowable CO Level	Comments		
Gas Furnace / Boiler	100 ppm / 200 ppm	200 ppm / 400 ppm	as-measured / air-free		
Gas Water Heater	100 ppm / 200 ppm	200 ppm / 400 ppm	as-measured / air-free		
Range Bake Burner	800 ppm	800 ppm	air-free		
Oil Furnace / Boiler	100 ppm	200 ppm	as-measured		
Oil Water Heater	100 ppm	200 ppm	as-measured		

[&]quot;Action CO Level" indicates level above which repair or adjustment to appliance is recommended to lower CO emissions.

---- For Use with Depressurization Tightness Limit Procedure ----

Building Depressurization Limits for Various Appliance Types (Used to calculate the Depressurization Tightness Limit)		
Appliance Type	Building Depressurization Limit, Pascals	
Water heater only, atmospheric gas	-2	
Water heater and atmospheric furnace	-5	
Furnace or boiler, gas atmospheric or fan assist., Category I	-5	
Oil or gas unit with power burner	-5	
Induced draft appliance (fan at point of exit at wall)	-5	
Direct-vent appliances	-10	

[&]quot;Allowable CO Level" indicates maximum CO emission levels allowed by the North Dakota Weatherization Program.