## ND FURNACE FIELD INSPECTION

NORTH DAKOTA DEPARTMENT OF COMMERCE DIVISION OF COMMUNITY SERVICES SFN 59497 (05/23)

## State of North Dakota Weatherization Assistance Program Heating System Clean, Tune, and Inspection Form

Job#	Name			Phone						
Address	City		ty			State		ZIP Code		
Fuel Type Outo		Outd	tdoor Temperature			Input		Owner/Renter		
Heating System Type F		Rated Heat Rise				Output		Date		
	Pre-test		Post-	test			Pre-	test	Post	-test
Gas leaks	☐ Yes ☐ I	No	☐ Yes	☐ No	Open air returns	1	☐ Yes	□No	☐ Yes	□No
Venting problems	☐ Yes ☐ No		☐ Yes ☐ No		Missing main shutoff		☐ Yes ☐ No		☐ Yes	□No
Carbon indicators	☐ Yes ☐ No		☐ Yes ☐ No		Asbestos		☐ Yes	☐ No	☐ Yes	□No
					Heat exchanger check		☐ Yes	☐ No	☐ Yes	☐ No
Anticipator	Measured:				Set at:		Reset:			
Cycling on high limit	☐ Yes ☐ No		☐ Yes ☐ No		Oil system smoke test					
Fan on (15 sec)/off temp	/		/		Draft, breech					
Spillage/backdraft	Yes No		☐ Yes ☐ No		Draft, overfire					
Steady State Heatrise	Pre		_ =		Steady State He	atrise	Post		=_	
Carbon monoxide	Pre p	pm	Post	ppm	High limit temp					
Check filter	☐ Yes ☐ No	)	☐ Yes ☐	No	Clean heat exch	anger	☐ Yes	☐ No	☐ Yes	☐ No
Cleaned blower	☐ Yes ☐ No	)	☐ Yes ☐	No	Check belt		☐ Yes	☐ No	☐ Yes	☐ No
Blower amp. draw	☐ Yes ☐ No		☐ Yes ☐	No	A-coil dirty		☐ Yes	☐ No	☐ Yes	☐ No
Net stack temp					O2% or CO2%					
Efficiency %			Run final furnace cycle			☐ Yes	□No			
Duct problems:										
H2O Type	☐ Electric		☐ Ga	as	Oven Type			lectric		Gas
H2O heater CO	p	pm		ppm	Oven CO					
H20 heater Draft	p	pm		ppm	Ambient CO			ppm		ppm
<u> </u>										
At the time of this ins	pection, this he	ating	system wa	s opera	ting properly.					
☐ Comments/Warning										
Technician Signature							Da	te		
Client Signature:										

Combustion Test Analysis Guidelines					
Heating Unit Type	Oxygen (O2)	Net Stack Temp	Smoke Test		
Gas	4-9 percent				
Atmospheric	4-9 percent	300-600 °F	NA		
Fan-assisted	See man. Info.	300-480 °F	NA		
Condensing	4-9 percent	See man. Info.	NA		
Standard Power Burner		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		

Acceptable Draft Test Ranges				
Outside Temperature (degree F)	Minimum Draft Pressure (Pa)			
<10	-2.5			
10-90	(Outside Temperature ÷ 40) – 2.75			
>90	-0.5			

## — CO Thresholds for Fossil-Fuel Fired Combustion Appliances —

Appliance	Threshold Limit
Central Furnace (all categories)	400 ppm air free
Boiler	400 ppm air free
Floor Furnace	400 ppm air free
Gravity Furnace	400 ppm air free
Wall Furnace (BIV)	200 ppm air free
Wall Furnace (Direct Vent)	400 ppm air free
Vented Room Heater	200 ppm air free
Water Heater	200 ppm air free
Oven/Broiler	225 ppm as measured
Clothes Dryer	400 ppm air free
Refrigerator	25 ppm as measured
Gas Log (gas fireplace)	25 ppm as measured in vent
Gas Log (installed in wood burning fireplace)	400 ppm air free in firebox