



CITY OF ITHACA

108 East Green Street Ithaca, New York 14850-5690

BUILDING DEPARTMENT - 4TH Floor

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SAFETY INSPECTION OF AN EXISTING HEATING APPLIANCE INSTALLATION

Recommended inspection procedure per 2015 International Fuel Gas Code

Property Address: _____ Date: _____

Location of Appliance(s): _____ BTU Output _____

Appliance Type: Boiler: _____ Furnace: _____ Fuel Type: _____

Manufacturers Name: _____ Model #: _____

Inspected per: NYS Fuel Gas Code Appendix D _____ Manufacturers Instructions: _____

Indicate All Applicable Tests With Pass / Fail

If a test has failed, note the defects found and the corrections made in the space provided below.

Boilers

Water Leaks: _____
Combustion Leaks: _____
Combustion Air: _____
Water Pumps: _____
Low Water Cutoff: _____
Temp. Controls: _____
Auto. Feed Control: _____
Pressure Controls: _____
Relief Valve: _____

Ignition System

Main Burner Ignition: _____
Power Interruption: _____
Re-Light: _____
Pilot Operation: _____
Burners/Crossover: _____
Primary Air Shutter: _____

Furnaces

Heat Exchanger: _____
Combustion Air: _____
Temp. Limit Control: _____
Fan Control: _____

Exhaust Venting System

Proper Size: _____
Horizontal Pitch: _____
Blocked/Restricted: _____
Leakage: _____
Corrosion: _____
Exhaust Draft: _____

Chimney Inspection (Including combined HW vent)

PVC: _____
B-Vent: _____
Triple Wall: _____
Insulated: _____
Masonry: _____

Fuel Source

Leak Test: _____
Shut-off Valves: _____
Fuel Supply Piping: _____

*Models with NO low water cut off and installed before 10/2016 must meet ANSI Z21.13 (indicated on boiler tag)

System Defects: _____

Corrections: _____

Company/Inspector: _____ Tele. #: _____

(Please Print)

Signature: _____ Date: _____

City of Ithaca Registered Heating and Ventilation Contractor

NEW YORK STATE FUEL GAS CODE APPENDIX D

The following procedure is intended as a guide to aid in determining that an appliance is properly installed and is in a safe condition for continued use.

This procedure is predicated on central furnace and boiler installations, and it should be recognized that generalized procedures cannot anticipate all situations. Accordingly, in some cases, deviation from this procedure is necessary to determine safe operation of the equipment.

(a) This procedure should be performed prior to any attempt at modification of the appliance or of the installation.

(b) If it is determined there is a condition that could result in unsafe operation, the appliance should be shut off and the owner advised of the unsafe condition. The following steps should be followed in making the safety inspection:

1. Conduct a test for gas leakage. (See: FGC Section 406.6)
2. Visually inspect the venting system for proper size and horizontal pitch and determine there is no blockage/restriction, leakage, corrosion, and other deficiencies that could cause an unsafe condition.
3. Shut off all gas to the appliance and shut off any other fuel-gas-burning appliance within the same room. Use the shutoff valve in the supply line to each appliance.
4. Inspect burners and crossovers for blockage and corrosion.
5. **Applicable only to furnaces:**

Inspect the heat exchanger for cracks, openings, or excessive corrosion.
6. **Applicable only to boilers:**

Inspect for evidence of water or combustion product leaks.
7. Insofar as is practical, close all building doors and windows and all doors between the space in which the appliance is located and other spaces of the building. Turn on clothes dryers. Turn on any exhaust fans, such as range hoods and bathroom exhausts, so they will operate at maximum speed. Do not operate a summer exhaust fan. Close fireplace dampers. If, after completing Steps 8 through 13, it is believed sufficient combustion air is not available, refer to FGC Section 304 of this code for guidance.
8. Place the appliance being inspected in operation. **Follow the lighting instructions.** Adjust the thermostat so appliance will operate continuously.
9. Determine that the pilot(s), where provided, is burning properly and that the main burner ignition is satisfactory by interrupting and reestablishing the electrical supply to the appliance in any convenient manner. If the appliance is equipped with a continuous pilot(s), test the pilot safety device(s) to determine if it is operating properly by extinguishing the pilot(s) when the main burner(s) is off and determining, after 3 minutes, that the main burner gas does not flow upon a call for heat. If the appliance is not provided with a pilot(s), test for proper operation of the ignition system in accordance with the appliance manufacturer's lighting and operating instructions.
10. Visually determine that the main burner gas is burning properly (i.e., no floating, lifting, or flashback). Adjust the primary air shutter(s) as required. If the appliance is equipped with high and low flame controlling or flame modulation, check for proper main burner operation at low flame.
11. Test for spillage at the draft hood relief opening after 5 minutes of main burner operation. Use a flame of a match or candle or smoke.
12. Turn on all other fuel-gas-burning appliances within the same room so they will operate at their full inputs. Follow lighting instructions for each appliance.
13. Repeat Steps 10 and 11 on the appliance being inspected.
14. Return doors, windows, exhaust fans, fireplace dampers, and any other fuel-gas-burning appliance to their previous conditions of use.
15. **Applicable only to furnaces:**

Check both the limit control and the fan control for proper operation. Limit control operation can be checked by blocking the circulating air inlet or temporarily disconnecting the electrical supply to the blower motor and determining that the limit control acts to shut off the main burner gas.
16. **Applicable only to boilers.**

Determine that the water pumps are in operating condition. Test low water cutoffs, automatic feed controls, pressure and temperature limit controls, and relief valves in accordance with the manufacturer's recommendations to determine that they are in operating condition.