

Combustion Safety Testing
Non-vented Gas Cooktop/Oven
 Continually monitor ambient CO levels during test.

Interim Gas/Propane Oven Testing Procedure

Range tops and ovens produce moisture and oxides of nitrogen. Excess moisture is not good for the durability of the home (possibly contributing to mold problems) and NOX is not healthy. These combustion appliances are capable of producing CO, which is a health hazard. In all cases a carbon monoxide detector is recommended and homeowners should use exhaust ventilation when using these appliances. New appliances may require an extended warm up period to reach steady state.

1. Remove any items/foil in or on oven.
2. Make sure self cleaning features are not activated, set oven to highest setting.
3. Test oven for CO in the flue, before dilution air.
4. After 5 minutes of operation, check for steady state:

Since all gas cook tops generate CO and it is difficult to simulate an actual operating condition for these appliances during the course of a typical house inspection, specific action levels for these burners are not specified by BPI. However, technicians must specify appropriate measures to mitigate potentially dangerous CO production of these units. ASHRAE exposure limits for CO shall be referenced when making recommendations for CO control in these areas. The recommended ASHRAE limit for 24-hour exposure of 9 ppm shall be applied to building occupants. In most cases, it will not be possible to effectively test for this condition; however the following measures shall be recommended whenever gas cook tops exist in the home:

If burners do not ignite properly or do not burn cleanly, a clean and tune of the appliance shall be recommended.

If the appliance is located in a confined space (Total volume less than 50 cubic ft. - per 1000 BTU's input of all combustion appliances within space.) and mechanical ventilation is not readily available, mechanical ventilation shall be recommended. Ventilation provided for unvented gas ovens must provide a minimum capacity of 25 cfm continuous airflow or 100 cfm intermittent.

CO Detectors

At least one CO detector meeting UL-2034 requirements shall be installed according to manufacturer's instructions in every home with an attached garage and/or combustion appliances. It is recommended that additional CO detectors are installed, as needed, to provide a separate detector for each floor of the building.

Action Levels. Make recommendations or complete work order for repairs based on test results and the Combustion Safety Test Action Level Tables.

Stove/Oven

Oven	PPM
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Record burners CO PPM

□	⊕	⊕	□
□	⊕	⊕	□