

## Audit Event - Energy Audit Diagnostic Tests

Please Note: CAZ Depressurization tests are not required in dwellings where all space and water heating plants are electric.

### General Tests

- Blower Door at -50 Pa
  - A pressurization blower test will be performed if a home contains vermiculite (*BPI 1200 - 2017, 10.2*)
- Attic Zonal Pressures (with respect to outside) – Optional if needed to guide air sealing activities
- Test Existing Smoke & CO Detectors
  - Replace units that are non-functional or over 5 years old (manufacturers date)
- Pressure Pan Test (ducts outside thermal envelope)
- Gas Cookstove CO Tests (oven) (*BPI 1200 - 2017, 7.9, Table 1*)
- Gas Cookstove Test for Fuel Leaks (accessible lines) (*BPI 1200 - 2017, 7.5*)
- Ambient CO test in kitchen and living area (*BPI 1200 - 2017, 7.3.3*)
- Exhaust Fan Flow Test (CFM) (*BPI 1200 - 2017, 1.3*)

### Water Heater

- Test for Fuel Leaks (*BPI 1200 - 2017, 7.5*)
- Water Heater Combustion Analysis/CO in Flue (*BPI 1200 - 2017, Table 1 for CO thresholds, or AHJ whichever is more stringent*)
  - PVC test holes must be plugged with threaded, knurled screws to create a tight seal
- CAZ Depressurization Test (*BPI 1200 - 2017, 7.9*)
- Combustion Spillage Test (*BPI 1200 - 2017, 7.9*)
- Hot Water Temperature

### Heating Plant

- Test for Fuel Leaks (*BPI 1200 - 2017, 7.5*)
- Heating Plant Combustion Analysis/CO in Flue (*PI 1200 - 2017, Table 1 for CO thresholds or AHJ whichever is more stringent*)
  - PVC test holes must be plugged with threaded, knurled screws to create a tight seal
  - When a heating system manufacturer does not allow drilling of a metal flue, use a combustion analyzer to test ambient CO at the front of the heating system cabinet and in the closest supply register.
- Test Furnace Shutoff Switch
- Heat Rise Test on Furnace
- CAZ Depressurization/Combustion Spillage Test.
  - This test is required on natural draft appliances equipped with a barometric draft control or Category I appliances equipped with a draft hood or connected to a natural draft venting system. (*BPI 1200 - 2017, 7.9*)
- Ambient CO Test in Mechanical Room and Living Space (*BPI 1200 - 2017, 7.3.3*)
- Smoke Test on Oil Furnace/Oil Water Heater
- Heat Exchanger Integrity - Visual Inspection
- Heat Exchanger Integrity - Oxygen Concentration Test

## Space Heater (including gas fireplaces)

- Test for Fuel Leaks (*BPI 1200- 2017, 7.5*)
- Combustion Analysis/CO in Flue (As feasible) (*BPI 1200- 2017, Table 1 for CO thresholds, or AHJ whichever is more stringent*)
- CAZ Depressurization/Combustion Spillage Test. (As feasible) This test is required on natural draft appliances equipped with a barometric draft control or Category I appliances equipped with a draft hood or connected to a natural draft venting system. (*BPI 1200- 2017, 7.9*)