

# BUILDING ANALYST Field Guide

### Standards of Reference: ANSI/BPI-1200-S-2017 Standard Practice for Basic Analysis of Buildings

#### Fuel Delivery

Correctly inspected gas/propane system for leaks/potential problems - NON-SCORABLE

Calibrate combustible gas detector (CGD) outside

Appropriate locations checked with appropriate speed Mentioned method of verifying significant gas/propane leak (bubble solution) - ask

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### **Combustion Safety Tests**

Correctly identified heating/cooling system types

Visual inspection of venting system for problems - NON-SCORABLE

Determined condition accurately

Correctly set up for natural conditions

Correctly recorded pressure differential in the CAZ prior to turning on exhaust appliances

Correctly set up home in worst case condition - NON-SCORABLE

All exhaust appliances running

Correct door closures - measured quantitatively or qualitatively

Air handler operation impact checked accurately

Correctly checked for worst case spillage in heating system

Correctly determined if the appliance passes the spillage test

Correctly checked for worst case spillage in the domestic water heater

Correctly determined if the appliance passes the spillage test

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# CO Testing

Correctly prepared CO monitor for use while outside of the building Correctly tested ambient CO indoors Correctly measured heating system flue gas CO during combustion safety testing Correctly measured DHW flue gas CO during combustion safety testing Appropriately applied BPI action levels based on test results for CO in the flue (choose DHW or heating system) Correctly monitored ambient CO levels in the CAZ during entire combustion safety tests Tested for CO in oven - NON-SCORABLE Correctly checked for items, excessive debris inside oven Oven test sampling location appropriate

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# Heating System Distribution (Hydronic and Forced Air)

Properly identified supplies and returns on hydronic systems Properly identified supplies and returns on ducted distribution systems

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## Infiltration Evaluation

Combustion appliances set to pilot or disabled

Proper set up of the blower door frame/shroud/fan

Proper set up of the manometer

Proper house setup for testing

Correctly measured baseline pressure differential

Accurate CFM50 measurement

Correctly measured existing ventilation fan flow

Conducted sample room by room inspection with blower door running

Correctly demonstrated usage of the pressure pan

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#### Domestic Water Heater Inspection

Correctly identified type of domestic water heater Accurately determined condition of basic safety controls