Audit Event - QCI Diagnostic Tests

- The MN Weatherization Reference Guide- Saturn Resource Management can be found in Appendix B.
- CAZ Depressurization tests are not required in dwellings where all space and water heating plants are electric.

**General Tests**
- Blower Door @ 50 Pa – A pressurized blower test will be performed if a home contains vermiculite (BPI 1200 - 2017, 10.2)
- Attic Zonal Pressures (with respect to outside)
- Test Existing Smoke & CO Detectors (1.3 MN Weatherization Reference Guide)
- Pressure Pan Test (ducts outside thermal envelope) (8.13 MN Weatherization Reference Guide)
- Gas Cookstove CO Tests and Fuel Leak Test (burners and oven, if clean and tune was called for) (BPI 1200 - 2017, 7.9, Table 1)
- Exhaust Fan Flow Test (on units that have been repaired or replaced) (BPI 1200 - 2017, 1.3)
- Ambient CO Test - Mechanical Room(s) & Living Space (BPI 1200 - 2017, 7.3.3)
- Verify dense packed insulation (visual inspection, infrared with blower door, or chemical smoke)

**Water Heater**
- Test for Fuel Leaks (BPI 1200 - 2017, 7.5)
- Water Heater Combustion Analysis/CO in Flue (8.3 MN Weatherization Reference Guide, BPI 1200 -2017, Table 1 for CO thresholds, or AHJ whichever is more stringent)
  - PVC test holes must be plugged with threaded, gnarled 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 (if replaced or repaired) (10.4 MN Weatherization Reference Guide)

**Heating Plant**
- Test for Fuel Leaks (BPI 1200 - 2017, 7.5)
- Heating Plant Combustion Analysis/CO in Flue (8.3 MN Weatherization Reference Guide, BPI 1200 -2017, Table 1 for CO thresholds or AHJ whichever is more stringent)
  - PVC test holes must be plugged with threaded, gnarled 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.
- CAZ Depressurization/Combustion Spillage Test. This test 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)
- Test Furnace Shutoff Switch (8.5 MN Weatherization Reference Guide)
- Heat Rise Test on Furnace (8.3.1 MN Weatherization Reference Guide)
- Ambient CO Test in Mechanical Room and Living Space (BPI 1200- 2017, 7.3.3)
- Smoke Test on Oil Furnace/Oil Water Heater (on units that have been repaired or replaced) (8.6 MN Weatherization Reference Guide)
- Room Balancing (on forced air heating plant) (8.13.3 MN Weatherization Reference Guide)

**Space Heater (including gas fireplaces, when work has been completed)**
- Test for Fuel Leaks (BPI 1200 - 2017, 7.5)
- Combustion Analysis/CO in Flue (As feasible) (8.3 MN Weatherization Reference Guide, BPI 1200 - 2017, Table 1 for CO thresholds or AHJ whichever is more stringent)
- CAZ Depressurization/Combustion Spillage Test. (As feasible) This test 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)